Open Source Used In Virtual Visitation System 3.0 3.0.2 - Update

Cisco Systems, Inc.

www.cisco.com

Cisco has more than 200 offices worldwide.
Addresses, phone numbers, and fax numbers
are listed on the Cisco website at
www.cisco.com/go/offices.

Text Part Number: 78EE117C99-1831476475

This document contains licenses and notices for open source software used in this product. With respect to the free/open source software listed in this document, if you have any questions or wish to receive a copy of any source code to which you may be entitled under the applicable free/open source license(s) (such as the GNU Lesser/General Public License), please submit this form.

In your requests please include the following reference number 78EE117C99-1831476475

Contents

1.271.1 Available under license

1.272 tzdata 2023c-r1

1.272.1 Available under license

1.273 libxdmcp 1.1.4-r2

1.273.1 Available under license

1.274 giflib 5.2.1-r4

1.274.1 Available under license

1.275 libxcb 1.15-r1

1.275.1 Available under license

1.276 libxrender 0.9.11-r3

1.276.1 Available under license

1.277 libxext 1.3.5-r2

1.277.1 Available under license

1.278 libxau 1.0.11-r2

1.278.1 Available under license

1.279 ca-certificates-bundle 20230506-r0

1.279.1 Available under license

1.280 servlet-api 4.0.0

1.280.1 Available under license

1.281 mkfontscale 1.2.2-r3

1.281.1 Available under license

1.282 encodings 1.0.7-r1

1.282.1 Available under license

1.283 libfontenc 1.1.7-r2

1.283.1 Available under license

1.284 font-dejavu 2.37-r5

1.284.1 Available under license

1.285 libc-utils 0.7.2-r5

1.285.1 Available under license

1.286 alpine-baselayout-data 3.4.3-r1

1.286.1 Available under license

1.287 su-exec 0.2-r3

1.287.1 Available under license

1.288 bash 5.2.15-r5

1.288.1 Available under license

1.289 logstash-logback-encoder 7.3

1.289.1 Available under license

1.290 libphonenumber 8.13.12

1.290.1 Available under license

1.291 scanelf 1.3.7-r1

1.292 libxtst 1.2.4-r2

1.293 libxi 1.8.1-r0

1.294 utmps-libs 0.1.2.1-r1

1.295 util-linux 2.38.1-r8

1.296 libuuid 2.38.1-r8

1.297 fstrim 2.38.1-r8

1.298 fdisk 2.38.1-r8

1.299 findmnt 2.38.1-r8

1.300 partx 2.38.1-r8

1.301 setpriv 2.38.1-r8

1.302 util-linux-misc 2.38.1-r8

1.303 cfdisk 2.38.1-r8

1.304 libmount 2.38.1-r8

1.305 logger 2.38.1-r8

1.306 mcookie 2.38.1-r8

1.307 mount 2.38.1-r8

1.308 umount 2.38.1-r8

1.309 uuidgen 2.38.1-r8

1.310 runuser 2.38.1-r8

1.1 antlr 2.7.7

1.1.1 Available under license :

SOFTWARE RIGHTS

ANTLR 1989-2006 Developed by Terence Parr
Partially supported by University of San Francisco & jGuru.com

We reserve no legal rights to the ANTLR--it is fully in the
public domain. An individual or company may do whatever
they wish with source code distributed with ANTLR or the
code generated by ANTLR, including the incorporation of
ANTLR, or its output, into commerical software.

We encourage users to develop software with ANTLR. However,
we do ask that credit is given to us for developing
ANTLR. By "credit", we mean that if you use ANTLR or
incorporate any source code into one of your programs
(commercial product, research project, or otherwise) that
you acknowledge this fact somewhere in the documentation,
research report, etc... If you like ANTLR and have
developed a nice tool with the output, please mention that
you developed it using ANTLR. In addition, we ask that the
headers remain intact in our source code.
 As long as these
guidelines are kept, we expect to continue enhancing this
system and expect to make other tools available as they are
completed.

The primary ANTLR guy:

Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

1.2 javax-inject 1

1.2.1 Available under license :

Apache License
        Version 2.0, January 2004
     http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems
that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants
to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work
or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution
of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

 8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental,
or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

 9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted
against, such Contributor by reason
   of your accepting any such warranty or additional liability.

 END OF TERMS AND CONDITIONS

 APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
/*
* Copyright (C) 2009 The JSR-330 Expert Group
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

1.3 antlr 3.4

1.3.1 Available under license :

[The "BSD licence"]
Copyright (c) 2005-2007 Kunle Odutola
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code MUST RETAIN the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form MUST REPRODUCE the above copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

3. The name of the author may not be used to endorse or promote products

  derived from this software without specific prior WRITTEN permission.

4. Unless explicitly state otherwise, any contribution intentionally

  submitted for inclusion in this work to the copyright owner shall be

  under the terms and conditions of this license, without any

  additional terms or conditions.

THIS SOFTWARE IS PROVIDED
 BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
[The "BSD license"]
Copyright (c) 201 Terence Parr
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright

  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright

  notice, this list of conditions and the following disclaimer in the

  documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products

  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
 INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
===

This software contains code derived from the ANTLR V3 Java Runtime Library

developed by Terence Parr in accordance with it's license:

[The "BSD licence"]
Copyright (c) 2003-2006 Terence Parr
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific
 prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===
[The "BSD licence"]
Copyright (c) 2007-2008 Leon, Jen-Yuan Su
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
 ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code MUST RETAIN the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form MUST REPRODUCE the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior WRITTEN permission.
4. Unless explicitly state otherwise, any contribution intentionally
   submitted for inclusion in this work to the copyright owner shall be
   under the terms and conditions of this license, without any
   additional terms or conditions.

THIS
 SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
 DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
[The "BSD licence"]
Copyright (c) 2003-2006 Terence Parr
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
 DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

1.4 commons-math 2.2

1.4.1 Available under license :

Apache Commons Math

Copyright 2001-2011 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

===

The BracketFinder (package org.apache.commons.math.optimization.univariate)
and PowellOptimizer (package org.apache.commons.math.optimization.general)
classes are based on the Python code in module "optimize.py" (version 0.5)
developed by Travis E. Oliphant for the SciPy library (http://www.scipy.org/)
Copyright Â© 2003-2009 SciPy Developers.

===

The LinearConstraint, LinearObjectiveFunction, LinearOptimizer,
RelationShip, SimplexSolver and SimplexTableau classes in package
org.apache.commons.math.optimization.linear include software developed by
Benjamin McCann (http://www.benmccann.com) and distributed with
the following copyright: Copyright
 2009 Google Inc.

===

This product includes software developed by the
University of Chicago, as Operator of Argonne National
Laboratory.
The LevenbergMarquardtOptimizer class in package
org.apache.commons.math.optimization.general includes software
translated from the lmder, lmpar and qrsolv Fortran routines
from the Minpack package
Minpack Copyright Notice (1999) University of Chicago. All rights reserved

===

The GraggBulirschStoerIntegrator class in package
org.apache.commons.math.ode.nonstiff includes software translated
from the odex Fortran routine developed by E. Hairer and G. Wanner.
Original source copyright:
Copyright (c) 2004, Ernst Hairer

===

The EigenDecompositionImpl class in package
org.apache.commons.math.linear includes
 software translated
from some LAPACK Fortran routines. Original source copyright:
Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

===

The MersenneTwister class in package org.apache.commons.math.random
includes software translated from the 2002-01-26 version of
the Mersenne-Twister generator written in C by Makoto Matsumoto and Takuji
Nishimura. Original source copyright:
Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
All rights reserved

===

The complete text of licenses and disclaimers associated with the the original
sources enumerated above at the time of code translation are in the LICENSE.txt
file.

<div align="center">

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

</div>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or
(iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from)
the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication
on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant
of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as
of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own
copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names
of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law
(such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your

sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE COMMONS MATH DERIVATIVE WORKS:

The Apache commons-math library includes a number of subcomponents
whose implementation is derived from original sources written
in C or Fortran. License terms of the original sources
are reproduced below.

===
For the lmder, lmpar and qrsolv Fortran routine from minpack and translated in
the LevenbergMarquardtOptimizer
 class in package
org.apache.commons.math.optimization.general
Original source copyright and license statement:

Minpack Copyright Notice (1999) University of Chicago. All rights reserved

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the
following conditions are met:

1. Redistributions of source code must retain the above
copyright notice, this list of conditions and the following
disclaimer.

2. Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.

3. The end-user documentation included with the
redistribution, if any, must include the following
acknowledgment:

"This product includes software developed by the
University of Chicago, as Operator of Argonne National
Laboratory.

Alternately, this acknowledgment may appear in the
software
itself, if and wherever such third-party acknowledgments
normally appear.

4. WARRANTY DISCLAIMER. THE SOFTWARE IS SUPPLIED "AS IS"
WITHOUT WARRANTY OF ANY KIND. THE COPYRIGHT HOLDER, THE
UNITED STATES, THE UNITED STATES DEPARTMENT OF ENERGY, AND
THEIR EMPLOYEES: (1) DISCLAIM ANY WARRANTIES, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE
OR NON-INFRINGEMENT, (2) DO NOT ASSUME ANY LEGAL LIABILITY
OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR
USEFULNESS OF THE SOFTWARE, (3) DO NOT REPRESENT THAT USE OF
THE SOFTWARE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS, (4)
DO NOT WARRANT THAT THE SOFTWARE WILL FUNCTION
UNINTERRUPTED, THAT IT IS ERROR-FREE OR THAT ANY ERRORS WILL
BE CORRECTED.

5. LIMITATION OF LIABILITY. IN NO EVENT WILL THE COPYRIGHT
HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF
ENERGY, OR THEIR EMPLOYEES: BE LIABLE FOR ANY INDIRECT,
INCIDENTAL, CONSEQUENTIAL,

SPECIAL OR PUNITIVE DAMAGES OF
ANY KIND OR NATURE, INCLUDING BUT NOT LIMITED TO LOSS OF
PROFITS OR LOSS OF DATA, FOR ANY REASON WHATSOEVER, WHETHER
SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT
(INCLUDING NEGLIGENCE OR STRICT LIABILITY), OR OTHERWISE,
EVEN IF ANY OF SAID PARTIES HAS BEEN WARNED OF THE
POSSIBILITY OF SUCH LOSS OR DAMAGES.
===

Copyright and license statement for the odex Fortran routine developed by
E. Hairer and G. Wanner and translated in GraggBulirschStoerIntegrator class
in package org.apache.commons.math.ode.nonstiff:

Copyright (c) 2004, Ernst Hairer

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

- Redistributions in
 binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
===

Copyright
 and license statement for the original lapack fortran routines
translated in EigenDecompositionImpl class in package
org.apache.commons.math.linear:

Copyright (c) 1992-2008 The University of Tennessee. All rights reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer listed
 in this license in the documentation and/or other materials
 provided with the distribution.

- Neither the name of the copyright holders nor the names of its
 contributors may be used to endorse or promote products derived
 from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
===

Copyright and license statement for the original Mersenne twister C
routines
 translated in MersenneTwister class in package
org.apache.commons.math.random:

 Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. The names of its contributors may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.5 string-template 3.2.1

1.5.1 Available under license :

/*
[The "BSD licence"]
Copyright (c) 2003-2005 Terence Parr
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE

FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

1.6 commons-collections 3.2.2

1.6.1 Available under license :

Apache Commons Collections
Copyright 2001-2015 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
 of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this

License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

     http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

1.7 jersey-apache-client 1.19.1

1.7.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a

Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable"
 means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer
 software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.
Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:
(a) under intellectual property rights (other than patent or trademark) Licensable
 by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and
(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).
(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.
(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.
Conditioned upon Your compliance
 with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:
(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce,

modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this

License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license

of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's

rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled

 for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise

 make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE

 IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software
 where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant
 under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES.
 THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. " 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses
 Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software

(except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded.
 Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State
 of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

1.8 xml-pull 1.1.3.1
1.8.1 Available under license :
Public Domain

http://www.xmlpull.org/v1/download/unpacked/LICENSE.txt

1.9 commons-math 3.6.1
1.9.1 Available under license :
/*

* Licensed to the Apache Software Foundation (ASF) under one or more

* contributor license agreements. See the NOTICE file distributed with

* this work for additional information regarding copyright ownership.

* The ASF licenses this file to You under the Apache License, Version 2.0

* (the "License"); you may not use this file except in compliance with

* the License. You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

```
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
 of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

 5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

Apache Commons Math includes the following code provided to the ASF under the
Apache License 2.0:

- The inverse error function implementation in the Erf class is based on CUDA
  code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance,
  and published in GPU Computing Gems, volume 2, 2010 (grant received on
  March 23th 2013)
- The LinearConstraint, LinearObjectiveFunction, LinearOptimizer,
  RelationShip, SimplexSolver and SimplexTableau classes in package
  org.apache.commons.math3.optimization.linear include software developed by
  Benjamin McCann (http://www.benmccann.com) and distributed with
  the following
 copyright: Copyright 2009 Google Inc. (grant received on
  March 16th 2009)
- The class "org.apache.commons.math3.exception.util.LocalizedFormatsTest" which
  is an adapted version of "OrekitMessagesTest" test class for the Orekit library
- The "org.apache.commons.math3.analysis.interpolation.HermiteInterpolator"
  has been imported from the Orekit space flight dynamics library.

==

APACHE COMMONS MATH DERIVATIVE WORKS:

The Apache commons-math library includes a number of subcomponents whose implementation is derived from original sources written in C or Fortran. License terms of the original sources are reproduced below.

==
For the lmder, lmpar and qrsolv Fortran routine from minpack and translated in the LevenbergMarquardtOptimizer class in package org.apache.commons.math3.optimization.general Original source copyright and license statement:

Minpack Copyright Notice (1999) University of Chicago. All rights reserved

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

  "This product includes software developed by the University of Chicago, as Operator of Argonne National Laboratory.

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. WARRANTY DISCLAIMER. THE SOFTWARE IS SUPPLIED "AS IS" WITHOUT WARRANTY OF ANY KIND. THE COPYRIGHT HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF ENERGY, AND THEIR EMPLOYEES: (1) DISCLAIM ANY WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE OR NON-INFRINGEMENT, (2) DO NOT ASSUME ANY LEGAL LIABILITY

OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR
USEFULNESS OF THE SOFTWARE, (3) DO NOT REPRESENT THAT USE OF
THE SOFTWARE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS, (4)
DO NOT WARRANT THAT THE SOFTWARE WILL FUNCTION
UNINTERRUPTED, THAT IT IS ERROR-FREE OR THAT ANY ERRORS WILL
BE CORRECTED.

5. LIMITATION OF LIABILITY. IN NO EVENT WILL THE COPYRIGHT
HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF
ENERGY, OR THEIR EMPLOYEES: BE LIABLE FOR ANY INDIRECT,
INCIDENTAL, CONSEQUENTIAL, SPECIAL OR PUNITIVE DAMAGES OF
ANY KIND OR NATURE, INCLUDING BUT NOT LIMITED TO LOSS OF
PROFITS OR LOSS OF DATA, FOR ANY REASON
 WHATSOEVER, WHETHER
SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT
(INCLUDING NEGLIGENCE OR STRICT LIABILITY), OR OTHERWISE,
EVEN IF ANY OF SAID PARTIES HAS BEEN WARNED OF THE
POSSIBILITY OF SUCH LOSS OR DAMAGES.
===

Copyright and license statement for the odex Fortran routine developed by
E. Hairer and G. Wanner and translated in GraggBulirschStoerIntegrator class
in package org.apache.commons.math3.ode.nonstiff:

Copyright (c) 2004, Ernst Hairer

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided
 with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING

NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
===

Copyright and license statement for the original Mersenne twister C
routines translated in MersenneTwister class in package
org.apache.commons.math3.random:

 Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:

   1. Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.

   2. Redistributions in binary form must reproduce the above copyright
      notice, this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.

   3. The names of its contributors may not be used to endorse or promote
      products derived from this software without specific prior written
      permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
 LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
 A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

===

The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by
a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham
 (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is

available here:
 http://citeseerx.ist.psu.edu/viewdoc/download;?doi=10.1.1.173.1898&rep=rep1&type=pdf

==

License statement for the direction numbers in the resource files for Sobol sequences.

Licence pertaining to sobol.cc and the accompanying sets of direction numbers

----

==

The initial commit of package "org.apache.commons.math3.ml.neuralnet" is
an adapted version of code developed in the context of the Data Processing
and Analysis Consortium (DPAC) of the "Gaia" project of the European Space
Agency (ESA).
==

The initial commit of the class "org.apache.commons.math3.special.BesselJ" is
an adapted version of code translated from the netlib Fortran program, rjbesl
http://www.netlib.org/specfun/rjbesl by R.J. Cody at Argonne National
Laboratory (USA). There is no license or copyright statement included with the
original Fortran sources.
==

The
 BracketFinder (package org.apache.commons.math3.optimization.univariate)
and PowellOptimizer (package org.apache.commons.math3.optimization.general)
classes are based on the Python code in module "optimize.py" (version 0.5)
developed by Travis E. Oliphant for the SciPy library (http://www.scipy.org/)
Copyright 2003-2009 SciPy Developers.

SciPy license
Copyright 2001, 2002 Enthought, Inc.
All rights reserved.

Copyright 2003-2013 SciPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  * Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

   * Neither the name of Enthought nor the names of the SciPy Developers may
    be used to endorse or promote products derived from this software without
    specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS AS IS AND
ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
==

Apache Commons Math

Copyright 2001-2016 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This product includes software developed for Orekit by
CS Systmes d'Information (http://www.c-s.fr/)
Copyright 2010-2012 CS Systmes d'Information

1.10 json-simple 1.1.1

1.10.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You"
(or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations,
or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems
that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants
to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work
or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution
of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental,
or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted
against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.11 annotations 13.0

1.11.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2006 Sascha Weinreuter
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Identifier.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Pattern.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Language.java

*

 /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/PrintFormat.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/RegExp.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Subst.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2000-2013 JetBrains s.r.o.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/Contract.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/Flow.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2000-2009 JetBrains s.r.o.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/jetbrains/annotations/Nls.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/jetbrains/annotations/Nullable.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/jetbrains/annotations/NonNls.java

*

 /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/jetbrains/annotations/PropertyKey.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2000-2012 JetBrains s.r.o.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/jetbrains/annotations/TestOnly.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-
jar/org/intellij/lang/annotations/JdkConstants.java

* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/NotNull.java
*
 /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/intellij/lang/annotations/MagicConstant.java

1.12 guava 19.0

1.12.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ComputingConcurrentHashMap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ContiguousSet.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/Shorts.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableMultimap.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableMultiset.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/StandardTable.java
*

/opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Platform.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/Ints.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/Bytes.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Range.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RegularImmutableMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/StandardRowSortedTable.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SingletonImmutableBiMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableMap.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableListMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/HashBasedTable.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/Longs.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/SerializingExecutor.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/CollectPreconditions.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/CharMatcher.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Table.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/CheckedFuture.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Stopwatch.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableMapKeySet.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/Doubles.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Converter.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Tables.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/TreeBasedTable.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableSortedSet.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Preconditions.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Interners.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/io/PatternFilenameFilter.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/CaseFormat.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/escape/CharEscaper.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/TimeLimiter.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/annotations/VisibleForTesting.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/Futures.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/escape/CharEscaperBuilder.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/AggregateFuture.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/AppendableWriter.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/CollectionFuture.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except

* in compliance with the License. You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software distributed under the

* License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either

* express or implied. See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableSortedAsList.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/internal/Finalizer.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS-IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/GenericMapMaker.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not
* use this file except in compliance with the License. You may obtain a copy of
* the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations under

* the License.

*/

Found in path(s):

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SortedMultisets.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SortedMultiset.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not

* use this file except in compliance with the License. You may obtain a copy

* of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations under

* the License.

*/

Found in path(s):

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/FunctionalEquivalence.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2014 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/eventbus/Dispatcher.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/eventbus/SubscriberRegistry.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/Weigher.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*

* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
  * This method was written by Doug Lea with assistance from members of JCP
  * JSR-166 Expert Group and released to the public domain, as explained at
  * http://creativecommons.org/licenses/publicdomain
  *
  * As of 2010/06/11, this method is identical to the (package private) hash
  * method in OpenJDK 7's java.util.HashMap
 class.
  */

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/Striped.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/hash/AbstractHasher.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/hash/HashCode.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/AbstractStreamingHashFunction.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RegularImmutableMultiset.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/HashingOutputStream.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/HashFunction.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/Crc32cHashFunction.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableList.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingIterator.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingCollection.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Functions.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/InputSupplier.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/eventbus/DeadEvent.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ListMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/MapConstraints.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SetMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/Closeables.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/eventbus/Subscribe.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/CountingOutputStream.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Maps.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingList.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Throwables.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ExecutionList.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-

jar/com/google/common/collect/ObjectArrays.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractListMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/ByteStreams.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ExplicitOrdering.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Objects.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/Files.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/LinkedListMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Defaults.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Constraints.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/NaturalOrdering.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/AbstractFuture.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/LinkedHashMultiset.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ReverseOrdering.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/FinalizableReference.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Function.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/CompoundOrdering.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/LineReader.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/eventbus/EventBus.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Predicate.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Lists.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/MapConstraint.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractMapEntry.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-

jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/package-info.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/Supplier.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/Predicates.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/HashMultiset.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/ComparatorOrdering.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/ConcurrentHashMultiset.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/FinalizableSoftReference.java
*

/opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Ordering.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SortedSetMultimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Sets.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingSortedMap.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/OutputSupplier.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Charsets.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Interner.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/package-info.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/EnumBiMap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ClassToInstanceMap.java

*
/opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractBiMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Multimaps.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/Flushables.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingObject.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/Primitives.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Iterables.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/FinalizableReferenceQueue.java

*
/opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SingletonImmutableSet.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Synchronized.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/Resources.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractIterator.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/LexicographicalOrdering.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ByFunctionOrdering.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Multiset.java

*
/opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/BiMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractSetMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingSortedSet.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/AbstractIterator.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-

jar/com/google/common/collect/ForwardingMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/package-info.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/MultiInputStream.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Constraint.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/EnumHashBiMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ArrayListMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Iterators.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingMultiset.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Multisets.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Suppliers.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
 * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
 * hereby
 disclaims copyright to this source code.
 */

Found in path(s):

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-

jar/com/google/common/base/SmallCharMatcher.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
 * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
 * hereby
 disclaims copyright to this source code.
 */
```

Found in path(s):

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-

jar/com/google/common/collect/Hashing.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2005 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/reflect/Reflection.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2007 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/
/*

 * This following method is a modified version of one found in

 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30

 * which contained the following notice:

 *

 * Written by Doug Lea with assistance from members of JCP JSR-166

 * Expert Group and released

 to the public domain, as explained at

 * http://creativecommons.org/publicdomain/zero/1.0/

 * Other contributors include Andrew Wright, Jeffrey Hayes,

 * Pat Fisher, Mike Judd.

 */

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/MoreExecutors.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2013 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except

* in compliance with the License. You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Verify.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Utf8.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/CharSequenceReader.java
*

/opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/TypeVisitor.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RegularImmutableTable.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/DenseImmutableTable.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/AggregateFutureState.java
No license file was found, but licenses were detected in source scan.

/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/publicdomain/zero/1.0/
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/LongAdder.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.

*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/ConsumingQueueIterator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not
* use this file except in compliance with the License. You may obtain a copy of
* the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-

jar/com/google/common/util/concurrent/SmoothRateLimiter.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

*
/opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/TypeToInstanceMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/xml/package-info.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/FileWriteMode.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/RateLimiter.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/FilteredSetMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/html/package-info.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingImmutableMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingNavigableMap.java

*
/opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/FilteredMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/TreeTraverser.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SortedMultisetBridge.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/AbstractByteHasher.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/Element.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/BinaryTreeTraverser.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/cache/LongAddable.java

*
/opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingImmutableSet.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/EvictingQueue.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableEnumMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/TreeRangeMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RegularImmutableAsList.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/TransformedListIterator.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/CharSource.java

*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/FilteredEntryMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/cache/LongAddables.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/ClassPath.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/DescendingMultiset.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/Closer.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/Invokable.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/package-info.java

*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ServiceManager.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/ByteSink.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingImmutableList.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/TypeCapture.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/ByteSource.java

*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/CharSink.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/TransformedIterator.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/escape/package-info.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RangeMap.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/html/HtmlEscapers.java
*

/opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Splitter.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/escape/Escapers.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/net/UrlEscapers.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/TypeResolver.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableTable.java

*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableSortedMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SingletonImmutableList.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ComparisonChain.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/SettableFuture.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/escape/Platform.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java

*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/SignedBytes.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/UnsignedBytes.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/annotations/GwtCompatible.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/net/HostSpecifier.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ArrayTable.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingTable.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/ByteArrayDataOutput.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/DiscreteDomain.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableSetMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/ByteArrayDataInput.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableEnumSet.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RegularImmutableList.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ComputationException.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/annotations/GwtIncompatible.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SingletonImmutableTable.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/io/ByteProcessor.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/xml/XmlEscapers.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/Callables.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/cache/LocalCache.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/cache/CacheBuilder.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/AbstractService.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/Service.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-

jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/Platform.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/package-
info.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-

jar/com/google/common/io/BaseEncoding.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/hash/ChecksumHashFunction.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/math/DoubleUtils.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/Enums.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/FutureFallback.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/Absent.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Present.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/math/package-info.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/net/HostAndPort.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/WellBehavedMap.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-

jar/com/google/common/math/IntMath.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/AbstractLoadingCache.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/FutureCallback.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/Optional.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/LoadingCache.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/AbstractCache.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/collect/GwtTransient.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/ForwardingCache.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/base/PairwiseEquivalence.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/AtomicLongMap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/math/DoubleMath.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/CacheStats.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/UncheckedExecutionException.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/AbstractScheduledService.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/net/MediaType.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/package-info.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/cache/RemovalNotification.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingListMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingSetMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/Monitor.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RowSortedTable.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/annotations/Beta.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/UnmodifiableListIterator.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SortedMapDifference.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java

*

 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractSequentialIterator.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Ascii.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/net/package-info.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Strings.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/util/concurrent/Atomics.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/package-info.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/annotations/package-info.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the
* License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
* express or implied. See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
*
 /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/Count.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/UnsignedLong.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/SortedIterables.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/UnsignedLongs.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/primitives/ParseRequest.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/RangeSet.java

* /opt/cola/permits/173974812_1695321863.2864647/0/guava-19-0-sources-jar/com/google/common/collect/GeneralRange.java

1.13 animal-sniffer-annotation 1.17

1.14 failureaccess 1.0.1

1.15 latencyutils 2.0.3

1.16 commons-configuration 1.10

1.16.1 Available under license :

Apache Commons Configuration

Copyright 2001-2013 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (http://www.apache.org/).

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained

within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of

this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the

origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.17 commons-fileupload 1.4

1.17.1 Available under license :

Apache Commons FileUpload
Copyright 2002-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

 2. Grant of Copyright License. Subject to the terms and conditions of
    this License, each Contributor hereby grants to You a perpetual,
    worldwide, non-exclusive, no-charge, royalty-free, irrevocable
    copyright license to reproduce, prepare Derivative Works of,
    publicly display, publicly perform, sublicense, and distribute the
    Work and such Derivative Works in Source or Object form.

 3. Grant of Patent License. Subject to the terms and conditions of
    this
License, each Contributor hereby grants to You a perpetual,
    worldwide, non-exclusive, no-charge, royalty-free, irrevocable
    (except as stated in this section) patent license to make, have made,
    use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.18 j2objc-annotations 1.3
1.18.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
/*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

1.19 commons-beanutils 1.9.4

1.19.1 Available under license :

Apache Commons BeanUtils
Copyright 2000-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained

within such NOTICE file, excluding
those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

1.20 commons-collections 4.4

1.20.1 Available under license :

Apache Commons Collections
Copyright 2001-2019 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.21 jbcrypt 1.0.0

1.22 objenesis 1.1

1.23 jsr311-api 1.1.1

1.23.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form
 shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely
 link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean
 Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such

Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute,
 all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use
 the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work

(and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly
 negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor
 harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

  Copyright [yyyy] [name of copyright owner]

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

1.24 jaxb-api 2.3.1

1.24.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

1. Definitions.

    1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

    1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

    1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

    1.4. "Executable" means the Covered Software in any form other than Source Code.

    1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

    1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

    1.7. "License" means this
document.

    1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

    1.9. "Modifications" means the Source Code and Executable form of any of the following:

    A. Any file that results from an addition to, deletion from or modification of the contents of a file containing

Original Software or previous Modifications;

   B. Any new file that contains any part of the Original Software or previous Modification; or

   C. Any new file that is contributed or otherwise made available under the terms of this License.

   1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

   1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable
 by grantor.

   1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

   1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

   2.1. The Initial Developer Grant.

   Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

    (a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

   (b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

   (c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

   (d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the
 Original Software with other software or devices.

   2.2. Contributor Grant.

   Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof);
 and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available
 in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices
 contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software
with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute
and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may

create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

   COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED
 SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

   6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

   6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the
 Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

   6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

   6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

   UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF

SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER
 INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

   The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

   This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with
 the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

   As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein
 is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)
The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the

Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended
 to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities
 for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish
 to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use

or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee
 is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify
 your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

  c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these
 conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
 exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source
 code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable
 runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative
 works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of
 this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free
 software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software
 Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are

different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

  One line to give the program's name
 and a brief idea of what it does.

 Copyright (C)

  This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

  This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General

Public License for more details.

   You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

   Gnomovision version 69, Copyright (C) year name of author
   Gnomovision
 comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

   Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

   signature of Ty Coon, 1 April 1989
   Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library,
 you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Oracle are subject to the following clarification and special exception to the GPL Version 2, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless
 of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If

you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.25 cglib 3.2.0
1.25.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,

each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

1.26 commons-digester 2.1

1.26.1 Available under license :

Apache Commons Digester
Copyright 2001-2010 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

1.27 guice 4.1.0
1.27.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
 of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Google Guice - Core Library
Copyright 2006-2016 Google, Inc.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

1.28 netflix-eventbus 0.3.0

1.29 netflix-infix 0.3.0

1.30 servo-core 0.12.21

1.31 checker-compat-qual 2.5.5

1.31.1 Available under license :

```
/*
 * $Header: /home/cvs/jakarta-commons/LICENSE,v 1.4 2002/04/11 13:24:02 dion Exp $
 * $Revision: 1.4 $
 * $Date: 2002/04/11 13:24:02 $
 *
 * ====================================================================
 *
 * The Apache Software License, Version 1.1
 *
 * Copyright (c) 1999-2001 The Apache Software Foundation.  All rights
 * reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. The end-user documentation included with the redistribution, if
 *    any, must include the following acknowlegement:
 *
 *       "This product includes software developed by the
 *        Apache Software Foundation (http://www.apache.org/)."
 *    Alternately, this acknowlegement may appear in the software itself,
 *    if and wherever such third-party acknowlegements normally appear.
 *
 * 4. The names "The Jakarta Project", "Commons", and "Apache Software
 *    Foundation" must not be used to endorse or promote products derived
 *    from this software without prior written permission. For written
 *    permission, please contact apache@apache.org.
 *
```

* 5. Products derived from this software may not be called "Apache"

*   nor may "Apache" appear in their names without prior written

*   permission of the Apache Group.

*

* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED

* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE

* DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR

* ITS CONTRIBUTORS

 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

* LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF

* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND

* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,

* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT

* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

* ==

*

* This software consists of voluntary contributions made by many

* individuals on behalf of the Apache Software Foundation. For more

* information on the Apache Software Foundation, please see

* <http://www.apache.org/>.

*

*/

Most of the Checker Framework is licensed under the GNU General Public
License, version 2 (GPL2), with the classpath exception. The text of this
license appears below. This is the same license used for OpenJDK.

A few parts of the Checker Framework have more permissive licenses.

* The annotations are licensed under the MIT License. (The text of this
  license appears below.) More specifically, all the parts of the Checker
  Framework that you might want to include with your own program use the
  MIT License. This is the checker-qual.jar file and all the files that
  appear in it: every file in a qual/ directory, plus utility files such
  as NullnessUtil.java, RegexUtil.java, SignednessUtil.java, etc.
  In addition, the cleanroom implementations of third-party annotations,
  which the Checker Framework recognizes as aliases for its own
  annotations, are licensed under the MIT License.

Some external libraries that are included with the Checker Framework have
different licenses.

 * javaparser is dual licensed under the LGPL or the Apache license -- you
   may use it under whichever one you want. (The javaparser source code
   contains a file with the text of the GPL, but it is not clear why, since
   javaparser does not use the GPL.) See file stubparser/LICENSE

and the source code of all its files.

* JUnit is licensed under the Common Public License v1.0 (see
  http://www.junit.org/license), with parts (Hamcrest) licensed under the
  BSD License (see http://hamcrest.org/JavaHamcrest/).

* Libraries in plume-lib (https://github.com/plume-lib/) are licensed
  under the MIT License.

The Checker Framework includes annotations for the JDK in directory
checker/jdk/, and for some other libraries. Each annotated library uses
the same license as the unannotated version of the library.

===

The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free
 Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share
and change it. By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users. This General Public License applies to
most of the Free Software Foundation's software and to any other program whose
authors commit to using it. (Some other Free Software Foundation software is
covered by the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
General Public Licenses are designed to make sure that you have the freedom to
distribute copies of free software (and charge for this service if
 you wish),
that you receive source code or can get it if you want it, that you can change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny
you these rights or to ask you to surrender the rights. These restrictions
translate to certain responsibilities for you if you distribute copies of the

software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands
 that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers
 to any such program
or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and

appropriately publish on each copy an appropriate copyright notice
 and
disclaimer of warranty; keep intact all the notices that refer to this License
and to the absence of any warranty; and give any other recipients of the
Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may
at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus
forming a work based on the Program, and copy and distribute such modifications
or work under the terms of Section 1 above, provided that you also meet all of
these conditions:

  a) You must cause the modified files to carry prominent notices stating
  that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in whole or
  in part contains or is derived from the Program or any part thereof, to be
  licensed as a whole at no charge to all third parties under the terms of
  this
 License.

  c) If the modified program normally reads commands interactively when run,
  you must cause it, when started running for such interactive use in the
  most ordinary way, to print or display an announcement including an
  appropriate copyright notice and a notice that there is no warranty (or
  else, saying that you provide a warranty) and that users may redistribute
  the program under these conditions, and telling the user how to view a copy
  of this License. (Exception: if the Program itself is interactive but does
  not normally print such an announcement, your work based on the Program is
  not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable
sections of that work are not derived from the Program, and can be reasonably
considered independent and separate works in themselves, then this License, and
its terms, do not apply to those sections when you distribute them as separate
works. But when
 you distribute the same sections as part of a whole which is a
work based on the Program, the distribution of the whole must be on the terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it
 with the complete corresponding machine-readable source
   code, which must be distributed under the terms of Sections 1 and 2 above
   on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to
   give any third party, for a charge no more than your cost of physically
   performing source distribution, a complete machine-readable copy of the
   corresponding source code, to be distributed under the terms of Sections 1
   and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to
   distribute corresponding source code. (This alternative is allowed only
   for noncommercial distribution and only if you received the program in
   object code or executable form with such an offer, in accord with
   Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it.
 For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and installation
of the executable. However, as a special exception, the source code
distributed need not include anything that is normally distributed (in either
source or binary form) with the major components (compiler, kernel, and so on)
of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even though
third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as
expressly provided under this License. Any attempt otherwise
 to copy, modify,
sublicense or distribute the Program is void, and will automatically terminate
your rights under this License. However, parties who have received copies, or
rights, from you under this License will not have their licenses terminated so

long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it.
However, nothing else grants you permission to modify or distribute the Program
or its derivative works. These actions are prohibited by law if you do not
accept this License. Therefore, by modifying or distributing the Program (or
any work based on the Program), you indicate your acceptance of this License to
do so, and all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program),
the recipient automatically receives a license from the original licensor to
copy, distribute or modify the Program
 subject to these terms and conditions.
You may not impose any further restrictions on the recipients' exercise of the
rights granted herein. You are not responsible for enforcing compliance by
third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues), conditions
are imposed on you (whether by court order, agreement or otherwise) that
contradict the conditions of this License, they do not excuse you from the
conditions of this License. If you cannot distribute so as to satisfy
simultaneously your obligations under this License and any other pertinent
obligations, then as a consequence you may not distribute the Program at all.
For example, if a patent license would not permit royalty-free redistribution
of the Program by all those who receive copies directly or indirectly through
you, then the only way you could satisfy both it and this License would be to
refrain entirely
 from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply and
the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or
other property right claims or to contest validity of any such claims; this
section has the sole purpose of protecting the integrity of the free software
distribution system, which is implemented by public license practices. Many
people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose that
choice.

This section is intended to make thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If
 the distribution and/or use of the Program is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Program under this License may add an explicit
geographical distribution limitation excluding those countries, so that
distribution is permitted only in or among countries not thus excluded. In
such case, this License incorporates the limitation as if written in the body
of this License.

9. The Free Software Foundation may publish revised and/or new versions of the
General Public License from time to time. Such new versions will be similar in
spirit to the present version, but may differ in detail to address new problems
or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any later
version", you have the option of following the terms and conditions either of
that version or of any later version published by the Free
 Software Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission. For software which is copyrighted by the Free Software Foundation,
write to the Free Software Foundation; we sometimes make exceptions for this.
Our decision will be guided by the two goals of preserving the free status of
all derivatives of our free software and of promoting the sharing and reuse of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO,
 THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA

BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want
 it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach
them to the start of each source file to most effectively convey the exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

   One line to give the program's name and a brief idea of what it does.

   Copyright (C) <year> <name of author>

   This program is free software; you can redistribute it and/or modify it
   under the terms of the GNU General Public License as published by the Free
   Software Foundation; either version 2 of the License, or (at your option)
   any later version.

   This program is distributed in the hope that it will be useful, but WITHOUT
   ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
   FITNESS FOR A
 PARTICULAR PURPOSE. See the GNU General Public License for
   more details.

   You should have received a copy of the GNU General Public License along
   with this program; if not, write to the Free Software Foundation, Inc., 59
   Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it
starts in an interactive mode:

   Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
   with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free
   software, and you are welcome to redistribute it under certain conditions;
   type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may be
called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever
 suits your program.

You should also get your employer (if you work as a programmer) or your school,
if any, to sign a "copyright disclaimer" for the program, if necessary. Here
is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  'Gnomovision' (which makes passes at compilers) written by James Hacker.

  signature of Ty Coon, 1 April 1989

  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General Public
License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following clarification and special exception to the GPL, but
only where Oracle has expressly included
 in the particular source file's header
the words "Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this code."

  Linking this library statically or dynamically with other modules is making
  a combined work based on this library. Thus, the terms and conditions of
  the GNU General Public License cover the whole combination.

  As a special exception, the copyright holders of this library give you
  permission to link this library with independent modules to produce an
  executable, regardless of the license terms of these independent modules,
  and to copy and distribute the resulting executable under terms of your
  choice, provided that you also meet, for each linked independent module,
  the terms and conditions of the license of that module. An independent
  module is a module which is not derived from or based on this library. If
  you modify this library, you may extend
 this exception to your version of
  the library, but you are not obligated to do so. If you do not wish to do
  so, delete this exception statement from your version.

===

MIT License:

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR
 PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

===
/*
* $Header: /home/cvs/jakarta-struts/LICENSE,v 1.2 2001/02/02 00:38:31 craigmcc Exp $
* $Revision: 1.2 $
* $Date: 2001/02/02 00:38:31 $
*
* ==
*
* The Apache Software License, Version 1.1
*
* Copyright (c) 1999-2001 The Apache Software Foundation. All rights
* reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in
*   the documentation and/or other materials provided with the
*   distribution.
*

* 3. The end-user documentation included with the redistribution, if
*   any, must include the
 following acknowlegement:
*   "This product includes software developed by the
*   Apache Software Foundation (http://www.apache.org/)."
*   Alternately, this acknowlegement may appear in the software itself,
*   if and wherever such third-party acknowlegements normally appear.
*
* 4. The names "The Jakarta Project", "Struts", and "Apache Software
*   Foundation" must not be used to endorse or promote products derived
*   from this software without prior written permission. For written
*   permission, please contact apache@apache.org.
*
* 5. Products derived from this software may not be called "Apache"
*   nor may "Apache" appear in their names without prior written
*   permission of the Apache Group.
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL
 THE APACHE SOFTWARE FOUNDATION OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
* ==
*
* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation. For more
* information on the Apache Software Foundation, please see
* <http://www.apache.org/>.
*
*/
/*
* $Header: /home/cvspublic/jakarta-commons/logging/LICENSE.txt,v 1.2 2003/04/06 20:37:31 rdonkin Exp $
* $Revision: 1.2 $
* $Date: 2003/04/06 20:37:31 $
*
* ==
*
* The Apache Software License, Version 1.1
*
* Copyright (c) 1999-2003 The Apache Software Foundation. All rights

* reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in
*   the documentation and/or other materials provided with the
*   distribution.
*
* 3. The end-user documentation included with the redistribution, if
*   any, must include the following
 acknowlegement:
*   "This product includes software developed by the
*   Apache Software Foundation (http://www.apache.org/)."
*   Alternately, this acknowlegement may appear in the software itself,
*   if and wherever such third-party acknowlegements normally appear.
*
* 4. The names "The Jakarta Project", "Commons", and "Apache Software
*   Foundation" must not be used to endorse or promote products derived
*   from this software without prior written permission. For written
*   permission, please contact apache@apache.org.
*
* 5. Products derived from this software may not be called "Apache"
*   nor may "Apache" appear in their names without prior written
*   permission of the Apache Group.
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION
 OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
* ==
*
* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation. For more

* information on the Apache Software Foundation, please see
* <http://www.apache.org/>.
*
*/
  GNU LESSER GENERAL PUBLIC LICENSE
    Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
  59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest
 you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients
 all the rights that we gave
you. You must make sure that they, too, receive or can get the source

code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software patents pose a constant threat to the existence
 of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits
 its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use
 the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

  GNU LESSER GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without

limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish
 on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the terms of this License.

  d) If a facility in the modified Library
refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves,
 then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to
 a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed
under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this
License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables
containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

  a) Accompany the work with the complete corresponding machine-readable
 source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
  Library. A suitable mechanism is one that (1) uses at run time a
  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)
  will operate properly with a modified version of the library, if
  the user
 installs one, as long as the modified version is
  interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials
  specified in Subsection 6a, above, for a charge no more
  than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
  from a designated place, offer equivalent access to copy the above
  specified materials from the same place.

  e) Verify that the user has already received a copy of these
  materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the
 major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any other library
  facilities. This must be distributed under
 the terms of the
   Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing

the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute
 so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people
 have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License
 from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of
 all derivatives of our free software and of promoting the sharing
and reuse of software generally.

    NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL

DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright"
line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should
 also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the

library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the

editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of

this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.32 event-stream 1.0.1

1.32.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1015861006_1591858433.32/0/event-stream-1-0-1-sources-jar/META-INF/maven/com.github.malkomich/event-stream/pom.xml

1.33 quartz 2.3.2

1.33.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form
 shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely
 link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean
 Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their
 Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute,
 all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices

that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use
 the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly
 negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor
 harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.34 sparsebitset 1.2

1.34.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.zaxxer</groupId>
  <artifactId>SparseBitSet</artifactId>
  <version>1.2</version>
  <packaging>jar</packaging>

  <name>SparseBitSet</name>
  <description>An efficient sparse bitset implementation for Java</description>
  <url>https://github.com/brettwooldridge/SparseBitSet</url>

  <organization>
    <name>Zaxxer.com</name>
    <url>https://github.com/brettwooldridge/SparseBitSet</url>
  </organization>

  <scm>
    <connection>scm:git:git@github.com:brettwooldridge/SparseBitSet.git</connection>
```

```xml
      <developerConnection>scm:git:git@github.com:brettwooldridge/SparseBitSet.git</developerConnection>
      <url>git@github.com:brettwooldridge/SparseBitSet.git</url>
  </scm>

  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>

  <developers>
    <developer>
      <name>Brett Wooldridge</name>
      <email>brett.wooldridge@gmail.com</email>
    </developer>
  </developers>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  </properties>

  <parent>
    <groupId>org.sonatype.oss</groupId>
    <artifactId>oss-parent</artifactId>
    <version>7</version>
  </parent>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.12</version>
      <scope>test</scope>
    </dependency>
  </dependencies>

  <build>
    <sourceDirectory>src/main/java</sourceDirectory>
    <testSourceDirectory>src/test/java</testSourceDirectory>
     <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.1</version>
        <configuration>
          <source>1.5</source>
```

```xml
        <target>1.5</target>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>2.2.1</version>
      <configuration>
        <attach>true</attach>
      </configuration>
      <executions>
        <execution>
          <id>attach-sources</id>
          <goals>
            <goal>jar</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>

      <version>2.9.1</version>
      <configuration>
        <show>public</show>
        <attach>true</attach>
      </configuration>
      <executions>
        <execution>
          <goals>
            <goal>jar</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>

<profiles>
  <profile>
    <id>release-sign-artifacts</id>
    <activation>
      <property>
        <name>performRelease</name>
        <value>true</value>
      </property>
    </activation>
```

```
        <build>
          <plugins>
            <plugin>
              <groupId>org.apache.maven.plugins</groupId>
              <artifactId>maven-gpg-plugin</artifactId>
              <version>1.4</version>
              <executions>
                <execution>
                  <id>sign-artifacts</id>

              <phase>verify</phase>
                  <goals>
                    <goal>sign</goal>
                  </goals>
                </execution>
              </executions>
            </plugin>
          </plugins>
        </build>
      </profile>
    </profiles>
  </project>
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1046295158_1589992429.11/0/sparsebitset-1-2-jar/META-INF/maven/com.zaxxer/SparseBitSet/pom.xml

1.35 checker-qual 2.5.5

1.35.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2005 Brian Goetz and Tim Peierls

* Released under the Creative Commons Attribution License

*   (http://creativecommons.org/licenses/by/2.5)

* Official home: http://www.jcip.net

*

* Any republication or derived work distributed in source code form

* must include this copyright and license notice.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1046386584_1590042070.56/0/checker-qual-2-5-5-sources-jar/org/checkerframework/checker/lock/qual/GuardedBy.java

1.36 jersey 1.19.1

1.36.1 Available under license :

DO NOT TRANSLATE OR LOCALIZE.

%% The following software may be included in this product: Jettison
Use of any of this software is governed by the terms of the license below:

Copyright 2006 Envoi Solutions LLC

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and
 conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are
under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or
indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of
fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting
from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and
conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

1. You must give any other recipients of the Work or Derivative Works a copy of this License; and

2. You must cause any modified files to carry prominent notices stating that You changed the files; and

3. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

4. If the Work includes
 a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide
 additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE
 file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result
 of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even

if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply
 the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.
Copyright [yyyy] [name of copyright owner] Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific
 language governing permissions and limitations under the License.

%% The following software may be included in this product: Jackson
Use of any of this software is governed by the terms of the license below:

Jackson is dual-licensed under two alternative popular Open Source licenses: Apache (AL 2.0) and Gnu Lesser GPL (LGPL 2.1). You choose one or the other, as necessary (if you want to redistribute the code for use, you do not need license), and abide by the license rules as defined by the respective license agreement (and only that one).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright
 owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work"
 shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized
 to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare
 Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section)

patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to
 You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

  1. You must give any other recipients of the Work or Derivative Works a copy of this License; and

  2. You must cause any modified files to carry prominent notices stating that You changed the files; and

  3. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

  4. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE
 file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your
 use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an
 "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT,

MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and
 all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own
 identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.
Copyright [yyyy] [name of copyright owner] Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
If you received the contents of this file pursuant to a Technology License and Distribution Agreement (TLDA) or Sun Community Source
License (SCSL) agreement with Sun, then such TLDA or SCSL, whichever is applicable, and not the license found at or referenced
by a License.txt (or License.html) file or a source header file, shall apply to your use of the contents of the file.

DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.

Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved.

The contents of this file are subject to the terms of either the GNU
General Public License Version 2 only ("GPL") or the Common Development
and Distribution License("CDDL") (collectively, the "License"). You
may not use this file except in compliance with the License. You can

obtain a copy of the License at
http://glassfish.java.net/public/CDDL+GPL_1_1.html
or packager/legal/LICENSE.txt. See the License for the specific
language governing permissions and limitations under the License.

When distributing the software, include this License Header Notice in each
file and include the License file at packager/legal/LICENSE.txt.

GPL Classpath Exception:
Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the GPL Version 2 section of the License
file that accompanied this code.

Modifications:
 If applicable, add the following below the License Header, with the fields
enclosed by brackets [] replaced by your own identifying information:
"Portions Copyright [year] [name of copyright owner]"

Contributor(s):
If you wish your version of this file to be governed by only the CDDL or
only the GPL Version 2, indicate your decision by adding "[Contributor]
elects to include this software in this distribution under the [CDDL or GPL
Version 2] license." If you don't indicate a single choice of license, a
recipient has the option to distribute your version of this file under
either the CDDL, the GPL Version 2 or to extend the choice of license to
its licensees as provided above. However, if you add GPL Version 2 code
and therefore, elected the GPL Version 2 license, then the option applies
only if the new code is made subject to such option by the copyright
holder.
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

1. Definitions.

   1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

   1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a
Contributor (if any), and the Modifications made by that particular Contributor.

   1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files
containing Original Software with files containing Modifications, in each case including portions thereof.

   1.4. "Executable" means the Covered Software in any form other than Source Code.

   1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this
License.

   1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed
by the terms of this License.

1.7. "License" means this
document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable
by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

 (a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the
 Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof);
 and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available
 in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to

grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of

the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute
and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED
SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the
Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER
INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
(June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with
the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein
 is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)
The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended
 to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain
 responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you

legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We
 wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each
 licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You
 may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

 a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

 b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this

License.

  c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program
 under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent
 is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding
 source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which
 the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering

equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its
 derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions
 of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the
 free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software

Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our
 decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
 INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

 One line to give the program's

name and a brief idea of what it does.

  Copyright (C)

  This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

  This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

  You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
   Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

  signature of Ty Coon, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine
 library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Oracle are subject to the following clarification and special exception to the GPL Version 2, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable,
 regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

/*
* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
*
* Copyright (c) YYYY Oracle and/or its affiliates. All rights reserved.
*
* The contents of this file are subject to the terms of either the GNU
* General Public License Version 2 only ("GPL") or the Common Development
* and Distribution License("CDDL") (collectively, the "License"). You
* may not use this file except in compliance with the License. You can
* obtain a copy of the License at
* http://glassfish.java.net/public/CDDL+GPL_1_1.html
* or packager/legal/LICENSE.txt. See the License for the specific
* language governing permissions and limitations under the License.
*
* When distributing the software, include this License Header Notice in each
* file and include the License file at packager/legal/LICENSE.txt.
*
* GPL Classpath Exception:
* Oracle designates this particular file as subject to the "Classpath"
* exception as provided by Oracle in the GPL Version 2 section of the License
* file that
 accompanied this code.
*
* Modifications:
* If applicable, add the following below the License Header, with the fields
* enclosed by brackets [] replaced by your own identifying information:
* "Portions Copyright [year] [name of copyright owner]"
*
* Contributor(s):
* If you wish your version of this file to be governed by only the CDDL or
* only the GPL Version 2, indicate your decision by adding "[Contributor]
* elects to include this software in this distribution under the [CDDL or GPL
* Version 2] license." If you don't indicate a single choice of license, a
* recipient has the option to distribute your version of this file under
* either the CDDL, the GPL Version 2 or to extend the choice of license to
* its licensees as provided above. However, if you add GPL Version 2 code
* and therefore, elected the GPL Version 2 license, then the option applies

* only if the new code is made subject to such option by the copyright
* holder.
*/

DO NOT TRANSLATE OR LOCALIZE.

%% The following software may be included in this product: ASM
Use of any of this software is governed by the terms of the license below:

Copyright (c) 2000-2005 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

%% The following software may be included in this product: Jettison
Use of any of this software is governed by the terms of the license below:

Copyright 2006 Envoi Solutions LLC

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may
 obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1
through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are
under
 common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or
indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of
fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source
code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form,
including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as
indicated by a copyright notice that is included in or
 attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the
Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole,
an original work of authorship. For the purposes of this License, Derivative Works shall not include works that

remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent
 to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent
 License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work
 or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

 1. You must give any other recipients of the Work or Derivative Works a copy of this License; and

 2. You must cause any modified files to carry prominent notices stating that You changed the files; and

 3. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 4. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state
 otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT,
 MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.
 While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file
 or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner] Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

%% The following software may be included in this product: Jackson
Use of any of this software is governed by the terms of the license below:

Jackson is dual-licensed under two alternative popular Open Source licenses: Apache (AL 2.0) and Gnu Lesser GPL (LGPL 2.1). You choose
 one or the other, as necessary (if you want to redistribute the code for use, you do not need license), and abide by the license rules as defined by the respective license agreement (and only that one).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether
 by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source

code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are
managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except
as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

  1. You must give any other

recipients of the Work or Derivative Works a copy of this License; and

 2. You must cause any modified files to carry prominent notices stating that You changed the files; and

 3. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

 4. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if
 and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional
 terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks
 associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.
Copyright [yyyy] [name
 of copyright owner] Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0 Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.37 guava 28.0-android
1.37.1 Available under license :
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/Quantiles.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/MoreObjects.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/SubscriberRegistry.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/Dispatcher.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/Subscriber.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/CompactHashSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/CompactHashMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/CompactLinkedHashSet.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingImmutableSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingDeque.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AllEqualOrdering.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingNavigableMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-

jar/com/google/common/collect/DescendingMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingImmutableList.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/TreeTraverser.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingNavigableSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/FilteredSetMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/FilteredEntryMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/FilteredMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableEnumMap.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractNavigableMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RangeMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularImmutableAsList.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedMultisetBridge.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/CompactLinkedHashMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractMultimap.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/EvictingQueue.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/TreeRangeMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/TransformedIterator.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingImmutableMap.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/TransformedListIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/Escaper.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/Doubles.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/InetAddresses.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/internal/Finalizer.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/Longs.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/MultiReader.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Converter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Stopwatch.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/Booleans.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/Floats.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/Ints.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/CharMatcher.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/PercentEscaper.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Joiner.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/Chars.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/Shorts.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/Bytes.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/FluentIterable.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/FileBackedOutputStream.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2008 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
```

```
 * following header:
 *
 * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
 * hereby
disclaims copyright to this source code.
 */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Hashing.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/UnsignedBytes.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/annotations/GwtCompatible.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/InternetDomainName.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Service.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-

jar/com/google/common/collect/RegularImmutableTable.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/DenseImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/xml/XmlEscapers.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/LocalCache.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/HostSpecifier.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/CacheBuilder.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteProcessor.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteArrayDataInput.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/MapMaker.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/SignedBytes.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Splitter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Cut.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/LineProcessor.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Platform.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractService.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/Platform.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/Escapers.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/html/HtmlEscapers.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeResolver.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Callables.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/UrlEscapers.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/ReferenceEntry.java

No license file was found, but licenses were detected in source scan.

/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/publicdomain/zero/1.0/
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/LongAdder.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/LongAdder.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/Striped64.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/Striped64.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either

express

* or implied. See the License for the specific language governing permissions and limitations under

* the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/CommonPattern.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/CommonMatcher.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/PatternCompiler.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/JdkPattern.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not

* use this file except in compliance with the License. You may obtain a copy of

* the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations under

* the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedMultisets.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except

* in compliance with the License. You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software distributed under the
* License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
* express or implied. See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Count.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/GeneralRange.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedIterables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedIterable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RangeSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/*
 * This method was written by Doug Lea with assistance from members of JCP JSR-166 Expert Group
 * and released to the public domain, as explained at

* http://creativecommons.org/licenses/publicdomain
 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap
 class.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Striped.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/GwtTransient.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/*

* This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
 * which contained the following notice:
 *
 * Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to
 *
 the public domain, as explained at http://creativecommons.org/publicdomain/zero/1.0/
 *
 * Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/util/concurrent/MoreExecutors.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/graph/ImmutableNetwork.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/graph/PredecessorsFunction.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/graph/SuccessorsFunction.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/graph/MutableNetwork.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collect/TopKSelector.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/graph/Graph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/graph/Network.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/MutableGraph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/Graphs.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ImmutableGraph.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
 wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Partially.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 The Guava Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License

* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/package-info.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/FluentFuture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/CharEscaper.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/PatternFilenameFilter.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Futures.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/AppendableWriter.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/annotations/VisibleForTesting.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/CollectionFuture.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/CharEscaperBuilder.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeToken.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/TimeLimiter.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/CaseFormat.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedMapDifference.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingSetMultimap.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/UnmodifiableListIterator.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2013 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
```

* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Verify.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CharSequenceReader.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeVisitor.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Utf8.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/VerifyException.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Runnables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either

express

* or implied. See the License for the specific language governing permissions and limitations under

* the License.

*/

/**

* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular

* version.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableBiMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableCollection.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularImmutableMap.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Platform.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/StandardTable.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Tables.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Range.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/TreeBasedTable.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Table.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Serialization.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/HashBasedTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableMapValues.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Collections2.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/CollectPreconditions.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableMultiset.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/PeekingIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableEntry.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 The Guava Authors
*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/primitives/ImmutableIntArray.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/primitives/ImmutableDoubleArray.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collect/ComputationException.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-

jar/com/google/common/collect/ComparisonChain.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/DiscreteDomain.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SingletonImmutableTable.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingTable.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableSortedMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableTable.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableAsList.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ArrayTable.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableEnumSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularImmutableList.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableSetMultimap.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/AbstractGraph.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Comparators.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/AbstractValueGraph.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/EndpointPair.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/DirectedGraphConnections.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/MutableValueGraph.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ValueGraphBuilder.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/NetworkBuilder.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ConfigurableMutableNetwork.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ConfigurableValueGraph.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/GraphConnections.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/EndpointPairIterator.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/MapRetrievalCache.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-

jar/com/google/common/graph/UndirectedMultiNetworkConnections.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/GraphBuilder.java

*

/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/AbstractGraphBuilder.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ForwardingGraph.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/AbstractNetwork.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/GraphConstants.java

*

/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ConfigurableNetwork.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ConfigurableMutableGraph.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/NetworkConnections.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ValueGraph.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ForwardingNetwork.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/EdgesConnecting.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ElementOrder.java

*

/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/MapIteratorCache.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/ConfigurableMutableValueGraph.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2007 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

/**

 * Returns an array containing all of the elements in the specified collection. This method

 * returns the elements in the order they are returned by the collection's iterator. The returned

 * array is "safe" in that no references to it are maintained by the collection. The caller is

 * thus free to modify the returned

array.

 *

 * <p>This method assumes that the collection size doesn't change while the method is running.

 *

 * <p>TODO(kevinb): support concurrently modified collections?

 *

 * @param c the collection for which to return an array of elements

 */

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ObjectArrays.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2018 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/IndexedImmutableSet.java
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2013 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/MultimapBuilder.java
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2009 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/**
  * Not supported. You are attempting to create a map that may contain a non-{@code Comparable}
  * key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy

```
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable}
to use {@link
 *     ImmutableSortedMap#of(Comparable, Object)}.</b>
 */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2015 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/graph/package-info.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2012 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ServiceManager.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/FileWriteMode.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/html/package-info.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/Element.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/StandardSystemProperty.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/LongAddable.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteSink.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/LongAddables.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/LongAddables.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeCapture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/LinearTransformation.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/PairedStatsAccumulator.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CharSink.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CharSource.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/ClassPath.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeToInstanceMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-

jar/com/google/common/collect/CartesianList.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/SipHashFunction.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/LongAddable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/Closer.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/PairedStats.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/Invokable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteSource.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/RateLimiter.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/Parameter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/StatsAccumulator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/Stats.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/ChecksumHashFunction.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Interner.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingSortedSet.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingObject.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Iterables.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularImmutableSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Synchronized.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/NaturalOrdering.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingMapEntry.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/MapDifference.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ArrayListMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ClassToInstanceMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/TreeMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ReverseOrdering.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Iterators.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingIterator.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Multisets.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Multiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingSortedMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractSetMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/LinkedHashMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Ordering.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/NullsLastOrdering.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedSetMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/NullsFirstOrdering.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ExplicitOrdering.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Lists.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingQueue.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ListMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/LinkedListMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Multimaps.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/BiMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractBiMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/EnumHashBiMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/LinkedHashMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-

jar/com/google/common/collect/ForwardingMap.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Maps.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableList.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/TreeMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingListIterator.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractSortedSetMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/LexicographicalOrdering.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/HashMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/package-info.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingList.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ByFunctionOrdering.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/EnumBiMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Multimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ComparatorOrdering.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SingletonImmutableSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/CompoundOrdering.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractListMultimap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Sets.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractMapEntry.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/HashMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SetMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ForwardingCollection.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Strings.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Ascii.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/annotations/Beta.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedLists.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/annotations/package-info.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/package-info.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Monitor.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ContiguousSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Equivalence.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Atomics.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2007 The Guava Authors

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except

* in compliance with the License. You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software distributed under the License

* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express

* or implied. See the License for the specific language governing permissions and limitations under

* the License.

*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/AsyncEventBus.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/Subscribe.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/MultiInputStream.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/DeadEvent.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CharStreams.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ExecutionList.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ListenableFuture.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/package-info.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/EnumMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/package-info.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/Primitives.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Supplier.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/Closeables.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Objects.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/FinalizableSoftReference.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/HashBiMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/package-info.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Defaults.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Charsets.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/EventBus.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Function.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/FinalizablePhantomReference.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Predicates.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/FinalizableWeakReference.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/AbstractIterator.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CountingOutputStream.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-

jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Functions.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Suppliers.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Throwables.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Preconditions.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CountingInputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Predicate.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteStreams.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/LineReader.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/LineBuffer.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/Resources.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/Flushables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/FinalizableReference.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Interners.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/Files.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0

*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ReaderInputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Platform.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/MacHashFunction.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/Reflection.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2012 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
 * MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author
 * hereby disclaims
copyright to this source code.
 */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/SmallCharMatcher.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/HashCode.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/HostAndPort.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/AbstractCache.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/DoubleMath.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Enums.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Absent.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/Weigher.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/UnsignedInteger.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/IntMath.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/BoundType.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/TreeRangeSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/MediaType.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Optional.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractSortedMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/FunctionalEquivalence.java

*
 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/FutureCallback.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/ForwardingLoadingCache.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeParameter.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/CacheLoader.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/HashingOutputStream.java

*
/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/Funnel.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/BigIntegerMath.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularContiguousSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AsyncFunction.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/Hasher.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Ticker.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/Cache.java

*
/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/Crc32cHashFunction.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/DoubleUtils.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/PrimitiveSink.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/EmptyContiguousSet.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ExecutionError.java

*
/opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/LongMath.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/LoadingCache.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/ForwardingCache.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-

jar/com/google/common/util/concurrent/UncheckedExecutionException.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/BloomFilter.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/HashFunction.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/RemovalCause.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/package-info.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/PairwiseEquivalence.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/AbstractHasher.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/Funnels.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Queues.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/HttpHeaders.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/MessageDigestHashFunction.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/UnsignedLong.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Present.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/AbstractStreamingHasher.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/CacheBuilderSpec.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/ParseRequest.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularImmutableMultiset.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/UnsignedLongs.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/package-info.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/CacheStats.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/UnsignedInts.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/Hashing.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/AbstractLoadingCache.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/Types.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/RemovalNotification.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/MathPreconditions.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/BloomFilterStrategies.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/RemovalListener.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/RemovalListeners.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2017 The Guava Authors
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/Traverser.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/BaseGraph.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java

*

 /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ObjectCountHashMap.java

* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java

1.38 jctools-core 3.1.0

1.38.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>

 <artifactId>jctools-core</artifactId>
 <groupId>org.jctools</groupId>
 <version>3.1.0</version>
 <name>Java Concurrency Tools Core Library</name>
 <description>Java Concurrency Tools Core Library</description>
 <packaging>bundle</packaging>

 <dependencies>
  <dependency>
   <groupId>org.hamcrest</groupId>
   <artifactId>hamcrest-all</artifactId>
   <version>${hamcrest.version}</version>
   <scope>test</scope>
  </dependency>

  <dependency>
   <groupId>junit</groupId>
   <artifactId>junit</artifactId>
   <version>${junit.version}</version>
   <scope>test</scope>
  </dependency>

  <dependency>
   <groupId>com.google.guava</groupId>
   <artifactId>guava-testlib</artifactId>
   <version>${guava-testlib.version}</version>
   <scope>test</scope>
  </dependency>
 </dependencies>
 <build>
  <plugins>
   <plugin>
```

```xml
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-surefire-plugin</artifactId>
<version>3.0.0-M3</version>
<configuration>
 <includes>
  <include>*</include>
 </includes>
</configuration>
</plugin>
<plugin>
 <groupId>org.apache.felix</groupId>
 <artifactId>maven-bundle-plugin</artifactId>
 <version>4.2.1</version>
 <extensions>true</extensions>
 <configuration>
  <instructions>
   <Import-Package>sun.misc;resolution:=optional</Import-Package>
  </instructions>
 </configuration>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-source-plugin</artifactId>
 <version>3.2.0</version>
 <executions>
  <execution>
   <id>attach-sources</id>
   <phase>verify</phase>
   <goals>
    <goal>jar-no-fork</goal>
   </goals>
  </execution>
 </executions>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-javadoc-plugin</artifactId>
 <version>3.1.1</version>
 <configuration>
  <additionalOptions>
   <additionalOption>-Xdoclint:none</additionalOption>
  </additionalOptions>
  <source>8</source>
 </configuration>
 <executions>
  <execution>
   <id>attach-javadocs</id>
   <goals>
```

```xml
        <goal>jar</goal>
       </goals>
      </execution>
     </executions>
    </plugin>
   </plugins>
  </build>

  <distributionManagement>
   <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
   </repository>
  </distributionManagement>

  <url>https://github.com/JCTools</url>
  <inceptionYear>2013</inceptionYear>

  <licenses>
   <license>
    <name>Apache
License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
   </license>
  </licenses>

  <scm>
   <url>https://github.com/JCTools/JCTools</url>
   <connection>scm:git:https://github.com/JCTools/JCTools</connection>
   <tag>HEAD</tag>
  </scm>

  <developers>
   <developer>
    <url>https://github.com/nitsanw</url>
   </developer>
   <developer>
    <url>https://github.com/mjpt777</url>
   </developer>
   <developer>
    <url>https://github.com/RichardWarburton</url>
   </developer>
   <developer>
    <url>https://github.com/kay</url>
   </developer>
   <developer>
```

```
  <url>https://github.com/franz1981</url>
 </developer>
</developers>

<prerequisites>
 <maven>3.5.0</maven>
</prerequisites>

<properties>
 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
 <java.version>1.6</java.version>
 <java.test.version>1.8</java.test.version>

 <maven.compiler.source>${java.version}</maven.compiler.source>
 <maven.compiler.target>${java.version}</maven.compiler.target>
 <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
 <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

 <hamcrest.version>1.3</hamcrest.version>
 <junit.version>4.12</junit.version>
 <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
```

Found
 in path(s):
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/META-
INF/maven/org.jctools/jctools-core/pom.xml
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/Ordering.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

jar/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java

*

 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscLinkedQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java

*

 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java

*

 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpmcArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/AbstractEntry.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddChunk.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java

*
 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeLongArrayAccess.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashMap.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java

*
 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseLinkedQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/InternalAPI.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingHashSet.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/Pow2.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscChunkedAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/ConcurrentAutoTable.java

*
 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/LinkedQueueNode.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscUnboundedArrayQueue.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/PortableJvmInfo.java

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/maps/NonBlockingSetInt.java
*
 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscCompoundQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
*
 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/QueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscGrowableAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
*
 /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscGrowableArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseSpscLinkedArrayQueue.java

1.39 okio 2.8.0

1.39.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/ByteString.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/internal/-Utf8.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/-Util.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/-Platform.kt
*
 /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/-Platform.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/internal/ByteString.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2019 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/internal/RealBufferedSink.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/internal/SegmentedByteString.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/internal/RealBufferedSource.kt

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2019 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/BufferedSource.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/RealBufferedSink.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/Okio.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/RealBufferedSource.kt

*

 /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/Source.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/BufferedSink.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/Sink.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/Buffer.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/internal/Buffer.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/Timeout.kt

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2014 Square Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/ByteString.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/PeekSource.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedOkio.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedUpgrade.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/Throttler.kt
*
 /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedUtf8.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 Square, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-

jar/commonMain/okio/SegmentedByteString.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/SegmentedByteString.kt

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/ForwardingTimeout.kt

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2017 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/Utf8.kt

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2014 Square, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/GzipSource.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/InflaterSource.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/AsyncTimeout.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/ForwardingSink.kt
*
 /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/Source.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/SegmentPool.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/SegmentPool.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/BufferedSource.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/Segment.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/RealBufferedSink.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/Sink.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/JvmOkio.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/Buffer.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/Timeout.kt
*
 /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/ForwardingSource.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/RealBufferedSource.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/DeflaterSink.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/GzipSink.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/BufferedSink.kt
No license file was found, but licenses were detected in source scan.

```
/*
 * Licensed to the Apache Software Foundation (ASF) under one or more
 * contributor license agreements.  See the NOTICE file distributed with
 * this work for additional information regarding copyright ownership.
 * The ASF licenses this file to You under the Apache License, Version 2.0
 * (the "License"); you may not use this file except in compliance with
 * the License.  You may obtain a copy of the License at
 *
 *    http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/-Base64.kt
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2016 Square, Inc.
 *
```

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/HashingSource.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/commonMain/okio/Options.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/HashingSink.kt
* /opt/cola/permits/1096821398_1601900245.47/0/okio-2-8-0-sources-jar/jvmMain/okio/Pipe.kt

1.40 java-cacerts 1.0-r1

1.40.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 1&1 Internet SE

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.41 commons-lang3 2.6

1.41.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or
(iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from)

the Work and for which the

editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including

the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to

communication

on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the

Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant

of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct

or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate

as
of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must

       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own
copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names
of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law
(such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your
sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.42 commons-logging 1.2

1.42.1 Available under license :

No license file was found, but licenses were detected in source scan.

* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2001-2004,2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/AvalonLogger.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/WeakHashtable.java
No license file was found, but licenses were detected in source scan.

2004 The Apache Software Foundation.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE
2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/package.html
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/package.html
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2001-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Log4JLogger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java

*
 /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java

* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/Log.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/ServletContextCleaner.java

1.43 isorelax 20090621

1.43.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* @(#)$Id: IslandSchemaReader.java,v 1.4 2001/11/01 00:11:45 kkawa Exp $
*

* Copyright 2001 KAWAGUCHI Kohsuke
*
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:
*
* The above copyright notice and this permission notice shall be included
* in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
* IN
 NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/dispatcher/IslandSchemaReader.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)$Id: IgnoredSchema.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
*
* Copyright 2001 Kohsuke KAWAGUCHI
*
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:
*
* The above copyright notice and this permission notice shall be included
* in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
* IN NO

EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/dispatcher/impl/IgnoredSchema.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)$Id: AttributesDecl.java,v 1.3 2001/11/01 00:11:45 kkawa Exp $
*
* Copyright 2001 Kohsuke KAWAGUCHI
*
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:
*
* The above copyright notice and this permission notice shall be included
* in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
* IN NO
 EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/dispatcher/AttributesDecl.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)$Id: IslandVerifier.java,v 1.6 2003/05/30 23:46:32 kkawa Exp $
*
* Copyright 2001 MURATA Makoto, KAWAGUCHI Kohsuke
*
* Permission is hereby granted, free of charge, to any person obtaining

Found in path(s):

* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/dispatcher/IslandVerifier.java
No license file was found, but licenses were detected in source scan.

Found in path(s):

* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-

jar/org/iso_relax/dispatcher/Dispatcher.java

No license file was found, but licenses were detected in source scan.

/*

* @(#)$Id: SchemaProvider.java,v 1.6 2003/05/30 23:46:32 kkawa Exp $

*

* Copyright 2001 Kohsuke KAWAGUCHI

*

* Permission is hereby granted, free of charge, to any person obtaining

* a copy of this software and associated documentation files (the

* "Software"), to deal in the Software without restriction, including

* without limitation the rights to use, copy, modify, merge, publish,

* distribute, sublicense, and/or sell copies of the Software, and to

* permit persons to whom the Software is furnished to do so, subject to

* the following conditions:

*

* The above copyright notice and this permission notice shall be included

* in all copies or substantial portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

* IN NO

 EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY

* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE

* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*/

Found in path(s):

* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-

jar/org/iso_relax/dispatcher/SchemaProvider.java

No license file was found, but licenses were detected in source scan.

/*

* @(#)$Id: ElementDecl.java,v 1.3 2001/11/01 00:11:45 kkawa Exp $

*

* Copyright 2001 Kohsuke KAWAGUCHI

*

* Permission is hereby granted, free of charge, to any person obtaining

* a copy of this software and associated documentation files (the

* "Software"), to deal in the Software without restriction, including

* without limitation the rights to use, copy, modify, merge, publish,

* distribute, sublicense, and/or sell copies of the Software, and to

* permit persons to whom the Software is furnished to do so, subject to

* the following conditions:
*
* The above copyright notice and this permission notice shall be included
* in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
* IN NO EVENT
 SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/dispatcher/ElementDecl.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)$Id: IslandSchema.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
*
* Copyright 2001 KAWAGUCHI Kohsuke
*
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:
*
* The above copyright notice and this permission notice shall be included
* in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
* IN NO EVENT
 SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-

jar/org/iso_relax/dispatcher/IslandSchema.java

No license file was found, but licenses were detected in source scan.

/*
* @(#)$Id: DispatcherImpl.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
*
* Copyright 2001 Kohsuke KAWAGUCHI
*
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:
*
* The above copyright notice and this permission notice shall be included
* in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
* IN NO
 EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
* TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
* SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/dispatcher/impl/DispatcherImpl.java

1.44 stax 4.2.1

1.44.1 Available under license :

This copy of Stax2 API is licensed under the
Simplified BSD License (also known as "2-clause BSD", or "FreeBSD License")
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.opensource.org/licenses/bsd-license.php

with details of:

<COPYRIGHT HOLDER> = FasterXML.com
<YEAR> = 2010-

1.45 commons-validator 1.7

1.45.1 Available under license :

Apache Commons Validator
Copyright 2001-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

                           Apache License
                      Version 2.0, January 2004
                     http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership
    of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

1.46 asm 5.0.4

1.46.1 Available under license :

No license file was found, but licenses were detected in source scan.

2011 INRIA, France Telecom

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the copyright holders nor the names of its
*   contributors may be used to endorse or promote products derived from
*   this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/signature/package.html
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/package.html
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/package.html
No license file was found, but licenses were detected in source scan.

/***
* ASM XML Adapter
* Copyright (c) 2004-2011, Eugene Kuleshov
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the copyright holders nor the names of its
*   contributors may be used to endorse or promote products derived from
*   this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"

* AND ANY EXPRESS OR IMPLIED WARRANTIES,
 INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
No license file was found, but licenses were detected in source scan.

2011, Eugene Kuleshov
 All rights reserved.

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
 3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
 AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES

OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE

LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF

SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS

INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN

CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF

THE POSSIBILITY OF SUCH DAMAGE.

Found in path(s):

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/asm-xml.dtd

No license file was found, but licenses were detected in source scan.

```
/***
 * ASM: a very small and fast Java bytecode manipulation framework
 * Copyright (c) 2000-2011 INRIA, France Telecom
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. Neither the name of the copyright holders nor the names of its
 *    contributors may be used to endorse or promote products derived from
 *    this software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS"
 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
 * THE POSSIBILITY OF SUCH DAMAGE.
 */
/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
```

* version.
      *
      * @param mv
      *   the

 method visitor to which this adapter delegates calls.
      * @param access
      *   the method's access flags (see {@link Opcodes}).
      * @param name
      *   the method's name.
      * @param desc
      *   the method's descriptor (see {@link Type Type}).
      * @throws IllegalStateException
      *   If a subclass calls this constructor.
      */

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/GeneratorAdapter.java
No license file was found, but licenses were detected in source scan.

/***
* ASM: a very small and fast Java bytecode manipulation framework
* Copyright (c) 2000-2011 INRIA, France Telecom
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the copyright holders nor the names of its
*   contributors may be used to endorse or promote products derived from
*   this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF

```
 * THE POSSIBILITY OF SUCH DAMAGE.
 */
/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
   the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
No license file was found, but licenses were detected in source scan.

```
/***
 * ASM: a very small and fast Java bytecode manipulation framework
 * Copyright (c) 2000-2011 INRIA, France Telecom
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
```

/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *   If a subclass calls this constructor.
   */

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ClassNode.java
No license file was found, but licenses were detected in source scan.

"AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.
*/
/**

  * Constructs a new {@link Textifier}. <i>Subclasses must not use this
  * constructor</i>. Instead, they must use the {@link #Textifier(int)}
  * version.
  *
  * @throws IllegalStateException
  *   If a subclass calls this constructor.
  */

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Textifier.java
No license file was found, but licenses were detected in source scan.

/***
* ASM: a very small and fast Java bytecode manipulation framework
* Copyright (c) 2000-2011 INRIA, France Telecom
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the copyright holders nor the names of its
*   contributors may be used to endorse or promote products derived from
*   this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

/**
  * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
  * not use this constructor</i>. Instead, they must use the
  * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
  * version.
  *

  * @param typeRef
  *   a reference to the annotated type. See {@link TypeReference}.
  * @param typePath
  *   the path to the annotated type argument, wildcard bound, array
  *   element type, or static inner type within 'typeRef'. May be
  *   <tt>null</tt> if the annotation targets 'typeRef' as a whole.
  * @param start
  *   the fist instructions corresponding to the continuous ranges
  *   that make the scope of this local variable (inclusive).
  * @param end
  *   the last instructions corresponding to the continuous ranges
  *   that make the scope of this local variable (exclusive). This
  *   array must have the same size as the 'start' array.
  * @param index
  *   the local variable's index in each range. This array must have
  *   the same size as the 'start' array.
  * @param desc
  *   the class descriptor of
 the annotation class.
  */

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
No license file was found, but licenses were detected in source scan.

/***
* ASM: a very small and fast Java bytecode manipulation framework
* Copyright (c) 2000-2011 INRIA, France Telecom
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-

jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/Remapper.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/FieldInsnNode.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/RemappingClassAdapter.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassReader.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnNode.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
*

/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/SimpleRemapper.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-

jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/ConstantPool.java
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/signature/SignatureVisitor.java
No license file was found, but licenses were detected in source scan.

/***
* ASM: a very small and fast Java bytecode manipulation framework
* Copyright (c) 2000-2011 INRIA, France Telecom
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the copyright holders nor the names of its
*   contributors may be used to endorse or promote products derived from
*   this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF

/**
  * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
  * constructor</i>. Instead, they must use the
  * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
  * version.
  *
  * @param owner
  *
    the owner's class name.
  * @param access
  *   the method's access flags (see {@link Opcodes}).
  * @param name
  *   the method's name.
  * @param desc
  *   the method's descriptor (see {@link Type Type}).
  * @param mv
  *   the method visitor to which this adapter delegates calls. May
  *   be <tt>null</tt>.
  * @throws IllegalStateException
  *   If a subclass calls this constructor.
  */

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
No license file was found, but licenses were detected in source scan.

* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/package.html
No license file was found, but licenses were detected in source scan.

#All rights reserved.
#Redistribution and use in source and binary forms, with or without
#modification, are permitted provided that the following conditions
#are met:
#1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
#2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
#3. Neither the name of the copyright holders nor the names of its
this software without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-resize.properties
*
 /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink.properties
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-writer.properties
No license file was found, but licenses were detected in source scan.

/***
* ASM: a very small and fast Java bytecode manipulation framework
* Copyright (c) 2000-2013 INRIA, France Telecom

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/TypeReference.java
No license file was found, but licenses were detected in source scan.

*   this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Textifiable.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifiable.java

1.47 classmate 1.5.1
1.47.1 Available under license :
This copy of Java ClassMate library is licensed under Apache (Software) License,
version 2.0 ("the License").
See the License for details about distribution rights, and the specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0
Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

1.48 jakarta-validation-api 2.0.2
1.48.1 Available under license :
No license file was found, but licenses were detected in source scan.

/*
* Jakarta Bean Validation API
*
* License: Apache License, Version 2.0
* See the license.txt file in the root directory or <http://www.apache.org/licenses/LICENSE-2.0>.

*/

Found in path(s):
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidatorContext.java
*
 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ExecutableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/groups/Default.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/MessageInterpolator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/Unwrapping.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraintvalidation/ValidationTarget.java
*
 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/BeanDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Digits.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/UnwrapByDefault.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NegativeOrZero.java
*

/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolation.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDefinitionException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ValidationProvider.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ElementKind.java

*

 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/GroupConversionDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ExtractedValue.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/GenericBootstrap.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodType.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstructorDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/package-info.java

*

 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertTrue.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Path.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PositiveOrZero.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java

*

 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ElementDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-

jar/javax/validation/metadata/ContainerElementTypeDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupDefinitionException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Min.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/ConvertGroup.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/Scope.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Max.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ReportAsSingleViolation.java

*
 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ReturnValueDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ParameterNameProvider.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Pattern.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/NoProviderFoundException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validation.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorContext.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotBlank.java

*
 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Constraint.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Valid.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CrossParameterDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ClockProvider.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Configuration.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ValidateOnExecution.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Size.java

*
 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PastOrPresent.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolationException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/TraversableResolver.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableValidator.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationProviderResolver.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorFactory.java

*
 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstraintDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ParameterDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotNull.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupSequence.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Negative.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorFactory.java

*
 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/OverridesAttribute.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/BootstrapState.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Email.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDeclarationException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/PropertyDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java

*
 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableType.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-

jar/javax/validation/constraints/AssertFalse.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Future.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMax.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java

*
 /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java

No license file was found, but licenses were detected in source scan.

~ Jakarta Bean Validation API
 ~
 ~ License: Apache License, Version 2.0
 ~ See the license.txt file in the root directory or <http://www.apache.org/licenses/LICENSE
<![CDATA[
Comments to: bean-validation-dev@eclipse.org.
Copyright © 2019 Eclipse Foundation.
Use is subject to EFSL; this spec is based on material that is licensed under the Apache License, version 2.0.]]>

Found in path(s):
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

1.49 commons-codec 1.15

1.49.1 Available under license :

Apache Commons Codec
Copyright 2002-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

==

The content of package org.apache.commons.codec.language.bm has been translated
from the original php source code available at http://stevemorse.org/phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

                        Apache License
                   Version 2.0, January 2004
                  http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership
   of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a
      copyright notice that is included in or attached to the work
      (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

1.50 hamcrest 2.2

1.50.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form
 shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely
 link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean
 Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their
 Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any

medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute,
 all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum
 to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use
 the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly
 negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor
 harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

  Copyright [yyyy] [name of copyright owner]

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

1.51 joda-time 2.3
1.51.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or
(iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from)
the Work and for which the
editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to
communication
on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant
of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as
of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own
copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names
of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law
(such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your
sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
===
= NOTICE file corresponding to section 4d of the Apache License Version 2.0 =
===
This product includes software developed by
Joda.org (http://www.joda.org/).

1.52 joda-time 2.5

1.52.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or
(iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from)
the Work and for which the
editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication
on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant
of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as
of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must

      include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own
copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names
of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law
(such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your
sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
===
= NOTICE file corresponding to section 4d of the Apache License Version 2.0 =
===
This product includes software developed by
Joda.org (http://www.joda.org/).

1.53 attoparser 2.0.5.RELEASE

1.53.1 Available under license :

Copyright (c) 2012-2014, The ATTOPARSER team (http://www.attoparser.org)

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

                    Apache License
              Version 2.0, January 2004
            http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this

License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.54 unbescape 1.1.6.RELEASE

1.54.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2014-2017, The UNBESCAPE team (http://www.unbescape.org)

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.55 commons-fileupload 2.0
1.55.1 Available under license :

Apache Tomcat
Copyright 1999-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This software contains code derived from netty-native
developed by the Netty project
(https://netty.io, https://github.com/netty/netty-tcnative/)
and from finagle-native developed at Twitter
(https://github.com/twitter/finagle).

This software contains code derived from jgroups-kubernetes
developed by the JGroups project (http://www.jgroups.org/).

The Windows Installer is built with the Nullsoft
Scriptable Install System (NSIS), which is

open source software. The original software and
related information is available at
http://nsis.sourceforge.net.

Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is
 a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
are derivative work originating from the Netty project and the finagle-native
project developed at Twitter
* Copyright 2014 The Netty Project
* Copyright 2014 Twitter

For portions of the Tomcat cloud support
The org.apache.catalina.tribes.membership.cloud package contains derivative
work originating from the jgroups project.
https://github.com/jgroups-extras/jgroups-kubernetes
Copyright 2002-2018 Red Hat Inc.

The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
 - javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd

- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html
Apache Tomcat
Copyright 1999-@YEAR@ The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache Standard Taglib Implementation
Copyright 2001-2015 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE TOMCAT SUBCOMPONENTS:

Apache Tomcat includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.

For the following XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd

- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
 - web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

   1.1. Contributor. means each individual or entity that creates or contributes
        to the creation of Modifications.

   1.2. Contributor Version. means the combination of the Original Software,
        prior Modifications used by a Contributor (if any), and the
        Modifications made by that particular Contributor.

   1.3. Covered Software. means (a) the Original Software, or (b) Modifications,
        or (c) the combination of files containing Original Software with files
        containing Modifications, in each case including portions thereof.

   1.4. Executable. means the Covered Software in any form other than Source
        Code.

   1.5. Initial Developer. means the individual or entity that first makes
        Original Software available
 under this License.

   1.6. Larger Work. means a work which combines Covered Software or portions
        thereof with code not governed by the terms of this License.

   1.7. License. means this document.

   1.8. Licensable. means having the right to grant, to the maximum extent
        possible, whether at the time of the initial grant or subsequently
        acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the
   following:

   A. Any file that results from an addition to, deletion from or
      modification of the contents of a file containing Original Software
      or previous Modifications;

   B. Any new file that contains any part of the Original Software or
      previous Modification; or

   C. Any new file that is contributed or otherwise made available under
      the terms of this License.

 1.10. Original Software. means the Source Code and Executable
form of
      computer software code that is originally released under this License.

 1.11. Patent Claims. means any patent claim(s), now owned or hereafter
      acquired, including without limitation, method, process, and apparatus
      claims, in any patent Licensable by grantor.

 1.12. Source Code. means (a) the common form of computer software code in
      which modifications are made and (b) associated documentation included
      in or with such code.

 1.13. You. (or .Your.) means an individual or a legal entity exercising
      rights under, and complying with all of the terms of, this License. For
      legal entities, .You. includes any entity which controls, is controlled
      by, or is under common control with You. For purposes of this
      definition, .control. means (a) the power, direct or indirect, to cause
      the direction or management of such entity, whether by contract or
      otherwise, or (b) ownership of more
than fifty percent (50%) of the
      outstanding shares or beneficial ownership of such entity.

2. License Grants.

   2.1. The Initial Developer Grant.

   Conditioned upon Your compliance with Section 3.1 below and subject to
   third party intellectual property claims, the Initial Developer hereby
   grants You a world-wide, royalty-free, non-exclusive license:

   (a) under intellectual property rights (other than patent or trademark)
      Licensable by Initial Developer, to use, reproduce, modify, display,
      perform, sublicense and distribute the Original Software (or
      portions thereof), with or without Modifications, and/or as part of

a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of

Modifications made by that Contributor with other software (except
as part of the Contributor Version) or other devices; or (3) under
Patent Claims infringed by Covered Software in the absence of
Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.
Any Covered Software that You distribute or otherwise make available in
Executable form must also be made available in Source Code form and that
Source Code form must be distributed only under the terms of this License.
You must include a copy of this License
with every copy of the Source Code
form of the Covered Software You distribute or otherwise make available.
You must inform recipients of any such Covered Software in Executable form
as to how they can obtain such Covered Software in Source Code form in a
reasonable manner on or through a medium customarily used for software
exchange.

3.2. Modifications.
The Modifications that You create or to which You contribute are governed
by the terms of this License. You represent that You believe Your
Modifications are Your original creation(s) and/or You have sufficient
rights to grant the rights conveyed by this License.

3.3. Required Notices.
You must include a notice in each of Your Modifications that identifies
You as the Contributor of the Modification. You may not remove or alter
any copyright, patent or trademark notices contained within the Covered
Software, or any notices of licensing or any descriptive
text giving
attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.
You may not offer or impose any terms on any Covered Software in Source
Code form that alters or restricts the applicable version of this License
or the recipients. rights hereunder. You may choose to offer, and to
charge a fee for, warranty, support, indemnity or liability obligations to
one or more recipients of Covered Software. However, you may do so only on
Your own behalf, and not on behalf of the Initial Developer or any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by You alone, and
You hereby agree to indemnify the Initial Developer and every Contributor
for any liability incurred by the Initial Developer or such Contributor as
a result of warranty, support, indemnity or liability terms You offer.

3.5.

Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient.s rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You

may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software

prohibiting it from

being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the

name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER
 OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach.

Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate

prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses

granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY.S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item,. as that term is defined in 48
C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as
that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and commercial
computer software documentation. as such terms are used in 48 C.F.R. 12.212
(Sept. 1995). Consistent
with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered
Software with only those rights set forth herein. This U.S. Government Rights
clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or
provision that addresses Government rights in computer software under this
License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. This License shall be governed by the law of the jurisdiction
specified in a notice contained within the Original Software (except to the
extent applicable law, if any, provides otherwise), excluding such
jurisdiction's conflict-of-law provisions. Any litigation relating to this
License shall be subject to the jurisdiction of the courts located
in the
jurisdiction and venue specified in a notice contained within the Original
Software, with the losing party responsible for costs, including, without
limitation, court costs and reasonable attorneys. fees and expenses. The
application of the United Nations Convention on Contracts for the

International Sale of Goods is expressly excluded. Any law or regulation
which provides that the language of a contract shall be construed against
the drafter shall not apply to this License. You agree that You alone are
responsible for compliance with the United States export administration
regulations (and the export control laws and regulation of any other
countries) when You use, distribute or otherwise make available any Covered
Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible
for claims and damages arising, directly or indirectly, out of its
utilization of rights under this License
and You agree to work with Initial
Developer and Contributors to distribute such responsibility on an equitable
basis. Nothing herein is intended or shall be deemed to constitute any
admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State
of California (excluding conflict-of-law provisions). Any litigation relating
to this License shall be subject to the jurisdiction of the Federal Courts of
the Northern District of California and the state courts of the State of
California, with venue lying in Santa Clara County, California.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership

of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,

indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including

the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the

origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE TOMCAT SUBCOMPONENTS:

Apache Tomcat includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.

For the Eclipse JDT Core Batch Compiler (ecj-x.x.x.jar) component:

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are

distributed by that particular Contributor. A Contribution 'originates' from a
Contributor if it was added to the Program by such Contributor itself or anyone
acting on such Contributor's behalf. Contributions do not include additions to
the Program which: (i) are separate modules of software distributed in
conjunction with the Program under their own license agreement, and (ii) are not
derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient"
 means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free copyright license to
reproduce, prepare derivative works of, publicly display, publicly perform,
distribute and sublicense the Contribution of such Contributor, if any, and such
derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed
Patents to make, use, sell, offer to sell, import and otherwise transfer the
Contribution of such Contributor, if any, in source code and object code form.
This patent license shall apply to the combination of the Contribution and the
Program if, at the time the Contribution is added by the Contributor, such
addition of the Contribution causes such combination to be covered
 by the
Licensed Patents. The patent license shall not apply to any other combinations
which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to
its Contributions set forth herein, no assurances are provided by any
Contributor that the Program does not infringe the patent or other intellectual
property rights of any other entity. Each Contributor disclaims any liability to
Recipient for claims brought by any other entity based on infringement of
intellectual property rights or otherwise. As a condition to exercising the
rights and licenses granted hereunder, each Recipient hereby assumes sole
responsibility to secure any other intellectual property rights needed, if any.
For example, if a third party patent license is required to allow Recipient to
distribute the Program, it is Recipient's responsibility to acquire that license

before distributing the Program.

d) Each Contributor represents
 that to its knowledge it has sufficient copyright
rights in its Contribution, if any, to grant the copyright license set forth in
this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its
own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and
conditions, express and implied, including warranties or conditions of title and
non-infringement, and implied warranties or conditions of merchantability and
fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
damages, including direct, indirect, special, incidental and consequential
damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by
that Contributor alone and not by any other party; and

iv) states that source code for
 the Program is available from such Contributor,
and informs licensees how to obtain it in a reasonable manner on or through a
medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the
Program.

Each Contributor must identify itself as the originator of its Contribution, if
any, in a manner that reasonably allows subsequent Recipients to identify the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not

create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related

settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT,

MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY

CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such
 noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions)
 may always
be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication,

estoppel or otherwise. All rights in the Program not expressly granted under
this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury trial in
any resulting litigation.

For the Windows Installer component:

  * All NSIS source code, plug-ins, documentation,
 examples, header files and
    graphics, with the exception of the compression modules and where
    otherwise noted, are licensed under the zlib/libpng license.
  * The zlib compression module for NSIS is licensed under the zlib/libpng
    license.
  * The bzip2 compression module for NSIS is licensed under the bzip2 license.
  * The lzma compression module for NSIS is licensed under the Common Public
    License version 1.0.

zlib/libpng license

This software is provided 'as-is', without any express or implied warranty. In
no event will the authors be held liable for any damages arising from the use of
this software.

Permission is granted to anyone to use this software for any purpose, including
commercial applications, and to alter it and redistribute it freely, subject to
the following restrictions:

  1. The origin of this software must not be misrepresented; you must not claim
     that you wrote the original software. If you use this software in a
     product,
 an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

bzip2 license

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice,
     this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must not claim
   that you wrote the original software. If you use this software in a
   product, an acknowledgment in the product documentation would be
   appreciated but is not required.
3. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original
software.
4. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.

jseward@acm.org
Common Public License version 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS
 OF THIS COMMON PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation
distributed under this Agreement, and b) in the case of each subsequent
Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates' from a
Contributor if it was added to the Program by such Contributor itself or anyone
acting on such Contributor's behalf. Contributions do not include additions to
the Program which: (i) are separate modules of software distributed in

conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed
 Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor,
 if any, in source code and object code form.
This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual
 property rights needed, if any.
For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright

rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including
 direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
 with
respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who

includes the Program in a commercial product offering should do so in a manner
which does not create potential liability for other Contributors. Therefore, if
a Contributor includes the Program in a commercial product offering, such
Contributor ("Commercial Contributor") hereby agrees to defend and indemnify
every other Contributor ("Indemnified Contributor") against any losses, damages
and costs (collectively "Losses") arising from claims, lawsuits and other legal
actions brought by a third party against the Indemnified Contributor to the
extent caused by the acts or omissions of such Commercial Contributor in
connection with its distribution of the Program in a commercial product
offering. The obligations in this section do not apply to any claims or Losses
relating to any actual or alleged intellectual property infringement.
 In order
to qualify, an Indemnified Contributor must: a) promptly notify the Commercial
Contributor in writing of such claim, and b) allow the Commercial Contributor to
control, and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may participate in
any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If that
Commercial Contributor then makes performance claims, or offers warranties
related to Product X, those performance claims and warranties are such
Commercial Contributor's responsibility alone. Under this section, the
Commercial Contributor would have to defend claims against the other
Contributors related to those performance claims and warranties, and if a court
requires any other Contributor to pay any damages as a result, the Commercial
Contributor must pay those damages.

5.
 NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using and
distributing the Program and assumes all risks associated with its exercise of
rights under this Agreement, including but not limited to the risks and costs of
program errors, compliance with applicable laws, damage to or loss of data,
programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER

CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes
 patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid
 inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether

expressly,
 by implication, estoppel or otherwise. All rights in the Program not
expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury trial in
any resulting litigation.

Special exception for LZMA compression module

Igor Pavlov and Amir Szekely, the authors of the LZMA compression module for
NSIS, expressly permit you to statically or dynamically link your code (or bind
by name) to the files from the LZMA compression module for NSIS without
subjecting your linked code to the terms of the Common Public license version
1.0. Any modifications or additions to files from the LZMA compression module
for NSIS, however, are subject to the terms of the Common Public License version
1.0.

For the following XML
 Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in
     which modifications are made and (b) associated documentation included
     in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising
     rights under, and complying with all
of the terms of, this License. For
     legal entities, .You. includes any entity which controls, is controlled
     by, or is under common control with You. For purposes of this
     definition, .control. means (a) the power, direct or indirect, to cause
     the direction or management of such entity, whether by contract or
     otherwise, or (b) ownership of more than fifty percent (50%) of the
     outstanding shares or beneficial ownership of such entity.

2. License Grants.

   2.1. The Initial Developer Grant.

   Conditioned upon Your compliance with Section 3.1 below and subject to
   third party intellectual property claims, the Initial Developer hereby
   grants You a world-wide, royalty-free, non-exclusive license:

     (a) under intellectual property rights (other than patent or trademark)
         Licensable by Initial Developer, to use, reproduce, modify, display,
         perform, sublicense and distribute the Original Software
(or
         portions thereof), with or without Modifications, and/or as part of
         a Larger Work; and

     (b) under Patent Claims infringed by the making, using or selling of
         Original Software, to make, have made, use, practice, sell, and
         offer for sale, and/or otherwise dispose of the Original Software
         (or portions thereof).

     (c) The licenses granted in Sections 2.1(a) and (b) are effective on the
         date Initial Developer first distributes or otherwise makes the
         Original Software available to a third party under the terms of this
         License.

     (d) Notwithstanding Section 2.1(b) above, no patent license is granted:
         (1) for code that You delete from the Original Software, or (2) for
         infringements caused by: (i) the modification of the Original
         Software, or (ii) the combination of the Original Software with
         other software or devices.

   2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of:
(1) Modifications made by that Contributor (or
portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications
made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.
Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed
by the terms of this License. You represent that You believe Your
Modifications are Your original creation(s) and/or You have
sufficient
rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies
You as the Contributor of the Modification. You may not remove or alter
any copyright, patent or trademark notices contained within the Covered
Software, or any notices of licensing or any descriptive text giving
attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source
Code form that alters or restricts the applicable version of this License
or the recipients. rights hereunder. You may choose to offer, and to
charge a fee for, warranty, support, indemnity or liability obligations to
one or more recipients of Covered Software. However, you may do so only on
Your own behalf, and not on behalf of the Initial Developer or any
Contributor.
You must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by You alone, and
You hereby agree to indemnify the Initial Developer and every Contributor
for any liability incurred by the Initial Developer or such Contributor as
a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the
terms of this License or under the terms of a license of Your choice,
which may contain terms different from this License, provided that You are
in compliance with the terms of this License and that the license for the
Executable form does not attempt to limit or alter the recipient.s rights
in the Source Code form from the rights set forth in this License. If You
distribute the Covered Software in Executable form under a different
license, You must
make it absolutely clear that any terms which differ
from this License are offered by You alone, not by the Initial Developer
or Contributor. You hereby agree to indemnify the Initial Developer and
every Contributor for any liability incurred by the Initial Developer or
such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with other code
not governed by the terms of this License and distribute the Larger Work
as a single product. In such a case, You must make sure the requirements
of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.
Sun Microsystems, Inc. is the initial license steward and may publish
revised and/or new versions of this License from time to time. Each
version will be given a distinguishing version number. Except as provided
in Section 4.3, no one other
than the license steward has the right to
modify this License.

4.2. Effect of New Versions.
You may always continue to use, distribute or otherwise make the Covered
Software available under the terms of the version of the License under
which You originally received the Covered Software. If the Initial
Developer includes a notice in the Original Software prohibiting it from
being distributed or otherwise made available under any subsequent version
of the License, You must distribute and make the Covered Software
available under the terms of the version of the License under which You
originally received the Covered Software. Otherwise, You may also choose
to use, distribute or otherwise make the Covered Software available under
the terms of any subsequent version of the License published by the
license steward.

4.3. Modified Versions.
When You are an Initial Developer and You want to create a new
license for
Your Original Software, You may create and use a modified version of this
License if You: (a) rename the license and remove any references to the
name of the license steward (except to note that the license differs from
this License); and (b) otherwise make it clear that the license contains
terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT
WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT
LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS,
MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK
AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD
ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL
DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY
SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
CONSTITUTES AN
ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED
HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate
automatically if You fail to comply with terms herein and fail to
cure such breach within 30 days of becoming aware of the breach.
Provisions which, by their nature, must remain in effect beyond the
termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory
judgment actions) against Initial Developer or a Contributor (the
Initial Developer or Contributor against whom You assert such claim
is referred to as .Participant.) alleging that the Participant
Software (meaning the Contributor Version where the Participant is a
Contributor or the Original Software where the Participant is the
Initial
Developer) directly or indirectly infringes any patent, then
any and all rights granted directly or indirectly to You by such
Participant, the Initial Developer (if the Initial Developer is not
the Participant) and all Contributors under Sections 2.1 and/or 2.2
of this License shall, upon 60 days notice from Participant terminate
prospectively and automatically at the expiration of such 60 day
notice period, unless if within such 60 day period You withdraw Your
claim with respect to the Participant Software against such
Participant either unilaterally or pursuant to a written agreement
with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end
user licenses that have been validly granted by You or any
distributor hereunder prior to termination (excluding licenses
granted to You by any distributor) shall survive termination.

7.
LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING
NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY
OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF
ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL,
INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE,
COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF
SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR
DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY.S NEGLIGENCE TO THE EXTENT
APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE
EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS
EXCLUSION AND LIMITATION
MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item,. as that term is defined in 48
C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as
that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and commercial
computer software documentation. as such terms are used in 48 C.F.R. 12.212
(Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered
Software with only those rights set forth herein. This U.S. Government Rights
clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or
provision that addresses Government rights in computer software under this
License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary
to make it
enforceable. This License shall be governed by the law of the jurisdiction
specified in a notice contained within the Original Software (except to the
extent applicable law, if any, provides otherwise), excluding such
jurisdiction's conflict-of-law provisions. Any litigation relating to this
License shall be subject to the jurisdiction of the courts located in the
jurisdiction and venue specified in a notice contained within the Original
Software, with the losing party responsible for costs, including, without
limitation, court costs and reasonable attorneys. fees and expenses. The
application of the United Nations Convention on Contracts for the
International Sale of Goods is expressly excluded. Any law or regulation
which provides that the language of a contract shall be construed against
the drafter shall not apply to this License. You agree that You alone are
responsible for compliance with the United States export administration
 regulations (and the export control laws and regulation of any other
countries) when You use, distribute or otherwise make available any Covered
Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible
for claims and damages arising, directly or indirectly, out of its
utilization of rights under this License and You agree to work with Initial
Developer and Contributors to distribute such responsibility on an equitable
basis. Nothing herein is intended or shall be deemed to constitute any
admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State
of California (excluding conflict-of-law provisions). Any litigation relating
to this License shall be subject to the jurisdiction of the Federal Courts of
the Northern District of California and the state
courts of the State of
California, with venue lying in Santa Clara County, California.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the

---

editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of

this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

Apache Standard Taglib Specification API
Copyright 2001-2015 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
Apache Tomcat
Copyright 1999-@YEAR@ The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd

- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html
Apache Tomcat JDBC Pool
Copyright 2008-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

                          Apache License
                    Version 2.0, January 2004
                    http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common
    control with that entity. For the purposes of this definition,
    "control" means (i) the power, direct or indirect, to cause the
    direction or management of such entity, whether by contract or
    otherwise, or (ii) ownership of fifty percent (50%) or more of the
    outstanding shares, or
 (iii) beneficial ownership of such entity.

    "You" (or "Your") shall mean an individual or Legal Entity
    exercising permissions granted by this License.

    "Source" form shall mean the preferred form for making modifications,
    including but not limited to software source code, documentation
    source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from)
the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication
on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant
of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as

of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own
copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names
of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law
(such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your
sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE TOMCAT SUBCOMPONENTS:

Apache Tomcat includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.

For the ecj-x.x.x.jar component and the EnclosingMethod and LocalVariableTypeTable classes in the org.apache.tomcat.util.bcel.classfile package:

Eclipse Public License - v 1.0

THE ACCOMPANYING
 PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means
 any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to

reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell,
 offer to sell, import and otherwise transfer the
Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses
 granted hereunder, each Recipient hereby assumes sole
responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness
 for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for

damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients
 to identify the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial
 product
offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product

offering, Product X. That Contributor is then a Commercial Contributor. If that
Commercial Contributor then makes performance claims, or offers warranties
related to Product X, those performance claims and warranties are such
Commercial Contributor's responsibility alone. Under this section, the
Commercial Contributor would have to defend claims against the other
Contributors
 related to those performance claims and warranties, and if a court
requires any other Contributor to pay any damages as a result, the Commercial
Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using and
distributing the Program and assumes all risks associated with its exercise of
rights under this Agreement , including but not limited to the risks and costs
of program errors, compliance with applicable laws, damage to or loss of data,
programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER
 RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable
law, it shall not affect the validity or enforceability of the remainder of the
terms of this Agreement, and without further action by the parties hereto, such
provision shall be reformed to the minimum extent necessary to make such
provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Program
 itself
(excluding combinations of the Program with other software or hardware)
infringes such Recipient's patent(s), then such Recipient's rights granted under
Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and does
not cure such failure in a reasonable period of time after becoming aware of
such noncompliance. If all Recipient's rights under this Agreement terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient's obligations under this Agreement
and any licenses granted by Recipient relating to the Program shall continue and
survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement
 Steward reserves the right to
publish new versions (including revisions) of this Agreement from time to time.
No one other than the Agreement Steward has the right to modify this Agreement.
The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation
may assign the responsibility to serve as the Agreement Steward to a suitable
separate entity. Each new version of the Agreement will be given a
distinguishing version number. The Program (including Contributions) may always
be distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to distribute the Program (including its Contributions)
under the new version. Except as expressly stated in Sections 2(a) and 2(b)
above, Recipient receives no rights or licenses to the intellectual property of
any Contributor under this Agreement, whether expressly, by implication,
estoppel or otherwise. All rights
 in the Program not expressly granted under
this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury trial in
any resulting litigation.

For the Windows Installer component:

  * All NSIS source code, plug-ins, documentation, examples, header files and
    graphics, with the exception of the compression modules and where
    otherwise noted, are licensed under the zlib/libpng license.
  * The zlib compression module for NSIS is licensed under the zlib/libpng
    license.
  * The bzip2 compression module for NSIS is licensed under the bzip2 license.
  * The lzma compression module for NSIS is licensed under the Common Public
    License version 1.0.

zlib/libpng license

This software
is provided 'as-is', without any express or implied warranty. In
no event will the authors be held liable for any damages arising from the use of
this software.

Permission is granted to anyone to use this software for any purpose, including
commercial applications, and to alter it and redistribute it freely, subject to
the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim
   that you wrote the original software. If you use this software in a
   product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

bzip2 license

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.
2. The origin of this software must not be misrepresented; you must not claim
   that you wrote the original software. If you use this software in a
   product, an acknowledgment in the product documentation would be
   appreciated but is not required.
3. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
4. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.

jseward@acm.org
Common Public License version 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation
distributed under this Agreement, and b) in the case of each subsequent
Contributor:

i) changes to the Program, and

ii) additions to the Program;

where
 such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates' from a
Contributor if it was added to the Program by such Contributor itself or anyone
acting on such Contributor's behalf. Contributions do not include additions to
the Program which: (i) are separate modules of software distributed in
conjunction with the Program under their own license agreement, and (ii) are not
derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the
 terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free copyright license to
reproduce, prepare derivative works of, publicly display, publicly perform,
distribute and sublicense the Contribution of such Contributor, if any, and such
derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution.
 No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant
 the copyright license set forth in
this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by

that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how
 to obtain it in a reasonable manner on or through a
medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore,
 if
a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified
 Contributor may participate in
any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such

Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY
 OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY
 OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such
 Recipient's rights granted under
Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the
 Agreement Steward has the right to modify this Agreement.
IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws
 of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Special exception for LZMA compression module

Igor Pavlov and Amir Szekely, the authors of the LZMA compression module for NSIS, expressly permit you to statically or dynamically link your code (or bind by name) to the files from the LZMA compression module for NSIS without subjecting your linked code to the terms of the Common Public license version 1.0. Any modifications or additions to files from the LZMA compression module for NSIS, however, are subject to the terms of the Common Public License version 1.0.

For the following XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd

- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
 - web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

  1.1. Contributor. means each individual or entity that creates or contributes
       to the creation of Modifications.

  1.2. Contributor Version. means the combination of the Original Software,
       prior Modifications used by a Contributor (if any), and the
       Modifications made by that particular Contributor.

  1.3. Covered Software. means (a) the Original Software, or (b) Modifications,
       or (c) the combination of files containing Original Software with files
       containing Modifications, in each case including portions thereof.

  1.4. Executable. means the Covered Software in any form other than Source
       Code.

  1.5. Initial Developer. means the individual or entity that first makes
       Original Software available under this License.

  1.6. Larger Work. means
 a work which combines Covered Software or portions
       thereof with code not governed by the terms of this License.

  1.7. License. means this document.

  1.8. Licensable. means having the right to grant, to the maximum extent
       possible, whether at the time of the initial grant or subsequently
       acquired, any and all of the rights conveyed herein.

  1.9. Modifications. means the Source Code and Executable form of any of the
       following:

     A. Any file that results from an addition to, deletion from or
        modification of the contents of a file containing Original Software
        or previous Modifications;

     B. Any new file that contains any part of the Original Software or

previous Modification; or

    C. Any new file that is contributed or otherwise made available under
       the terms of this License.

1.10. Original Software. means the Source Code and Executable form of

computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter
     acquired, including without limitation, method, process, and apparatus
     claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in
     which modifications are made and (b) associated documentation included
     in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising
     rights under, and complying with all of the terms of, this License. For
     legal entities, .You. includes any entity which controls, is controlled
     by, or is under common control with You. For purposes of this
     definition, .control. means (a) the power, direct or indirect, to cause
     the direction or management of such entity, whether by contract or
     otherwise, or (b) ownership of more than
fifty percent (50%) of the
     outstanding shares or beneficial ownership of such entity.

2. License Grants.

   2.1. The Initial Developer Grant.

   Conditioned upon Your compliance with Section 3.1 below and subject to
   third party intellectual property claims, the Initial Developer hereby
   grants You a world-wide, royalty-free, non-exclusive license:

    (a) under intellectual property rights (other than patent or trademark)
      Licensable by Initial Developer, to use, reproduce, modify, display,
      perform, sublicense and distribute the Original Software (or
      portions thereof), with or without Modifications, and/or as part of
      a Larger Work; and

    (b) under Patent Claims infringed by the making, using or selling of
      Original Software, to make, have made, use, practice, sell, and
      offer for sale, and/or otherwise dispose of the Original Software
      (or portions
thereof).

    (c) The licenses granted in Sections 2.1(a) and (b) are effective on the

date Initial Developer first distributes or otherwise makes the
Original Software available to a third party under the terms of this
License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted:
(1) for code that You delete from the Original Software, or (2) for
infringements caused by: (i) the modification of the Original
Software, or (ii) the combination of the Original Software with
other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third
party intellectual property claims, each Contributor hereby grants You a
world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
Licensable by Contributor
to use, reproduce, modify, display,
perform, sublicense and distribute the Modifications created by such
Contributor (or portions thereof), either on an unmodified basis,
with other Modifications, as Covered Software and/or as part of a
Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of
Modifications made by that Contributor either alone and/or in
combination with its Contributor Version (or portions of such
combination), to make, use, sell, offer for sale, have made, and/or
otherwise dispose of: (1) Modifications made by that Contributor (or
portions thereof); and (2) the combination of Modifications made by
that Contributor with its Contributor Version (or portions of such
combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on
the date Contributor
first distributes or otherwise makes the
Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted:
(1) for any code that Contributor has deleted from the Contributor
Version; (2) for infringements caused by: (i) third party
modifications of Contributor Version, or (ii) the combination of
Modifications made by that Contributor with other software (except
as part of the Contributor Version) or other devices; or (3) under
Patent Claims infringed by Covered Software in the absence of
Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.
Any Covered Software that You distribute or otherwise make available in
Executable form must also be made available in Source Code form and that
Source Code form must be distributed only under the terms
of this License.
You must include a copy of this License with every copy of the Source Code
form of the Covered Software You distribute or otherwise make available.
You must inform recipients of any such Covered Software in Executable form
as to how they can obtain such Covered Software in Source Code form in a
reasonable manner on or through a medium customarily used for software
exchange.

3.2. Modifications.
The Modifications that You create or to which You contribute are governed
by the terms of this License. You represent that You believe Your
Modifications are Your original creation(s) and/or You have sufficient
rights to grant the rights conveyed by this License.

3.3. Required Notices.
You must include a notice in each of Your Modifications that identifies
You as the Contributor of the Modification. You may not remove or alter
any copyright, patent or trademark notices
contained within the Covered
Software, or any notices of licensing or any descriptive text giving
attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.
You may not offer or impose any terms on any Covered Software in Source
Code form that alters or restricts the applicable version of this License
or the recipients. rights hereunder. You may choose to offer, and to
charge a fee for, warranty, support, indemnity or liability obligations to
one or more recipients of Covered Software. However, you may do so only on
Your own behalf, and not on behalf of the Initial Developer or any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by You alone, and
You hereby agree to indemnify the Initial Developer and every Contributor
for any liability incurred by the Initial Developer or such Contributor
as
a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.
You may distribute the Executable form of the Covered Software under the
terms of this License or under the terms of a license of Your choice,
which may contain terms different from this License, provided that You are
in compliance with the terms of this License and that the license for the
Executable form does not attempt to limit or alter the recipient.s rights
in the Source Code form from the rights set forth in this License. If You

distribute the Covered Software in Executable form under a different
license, You must make it absolutely clear that any terms which differ
from this License are offered by You alone, not by the Initial Developer
or Contributor. You hereby agree to indemnify the Initial Developer and
every Contributor for any liability incurred by the Initial
Developer or
such Contributor as a result of any such terms You offer.

3.6. Larger Works.
You may create a Larger Work by combining Covered Software with other code
not governed by the terms of this License and distribute the Larger Work
as a single product. In such a case, You must make sure the requirements
of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.
Sun Microsystems, Inc. is the initial license steward and may publish
revised and/or new versions of this License from time to time. Each
version will be given a distinguishing version number. Except as provided
in Section 4.3, no one other than the license steward has the right to
modify this License.

4.2. Effect of New Versions.
You may always continue to use, distribute or otherwise make the Covered
Software available under the terms of the version of the License
under
which You originally received the Covered Software. If the Initial
Developer includes a notice in the Original Software prohibiting it from
being distributed or otherwise made available under any subsequent version
of the License, You must distribute and make the Covered Software
available under the terms of the version of the License under which You
originally received the Covered Software. Otherwise, You may also choose
to use, distribute or otherwise make the Covered Software available under
the terms of any subsequent version of the License published by the
license steward.

4.3. Modified Versions.
When You are an Initial Developer and You want to create a new license for
Your Original Software, You may create and use a modified version of this
License if You: (a) rename the license and remove any references to the
name of the license steward (except to note that the license differs
from
this License); and (b) otherwise make it clear that the license contains
terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate
     automatically if You fail to comply with terms herein and fail to
     cure such breach within 30 days of becoming aware of the breach.
     Provisions which, by their nature, must remain in effect beyond the
     termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory
     judgment actions) against Initial Developer or a Contributor (the
     Initial Developer or Contributor against whom You assert such claim
     is referred to as .Participant.) alleging that the Participant
     Software (meaning the Contributor Version where the Participant is a
     Contributor or the Original Software where the Participant is the
     Initial Developer) directly or indirectly infringes any patent, then
     any and all rights granted directly or indirectly to You by such
     Participant, the Initial Developer (if the Initial Developer
 is not
     the Participant) and all Contributors under Sections 2.1 and/or 2.2
     of this License shall, upon 60 days notice from Participant terminate
     prospectively and automatically at the expiration of such 60 day
     notice period, unless if within such 60 day period You withdraw Your
     claim with respect to the Participant Software against such
     Participant either unilaterally or pursuant to a written agreement
     with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end
     user licenses that have been validly granted by You or any
     distributor hereunder prior to termination (excluding licenses
     granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL,

INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE,
COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF
SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR
DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY.S NEGLIGENCE TO THE EXTENT
APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE
EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS
EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item,. as that term is defined in 48
C.F.R. 2.101 (Oct. 1995), consisting of .commercial
computer software. (as
that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and commercial
computer software documentation. as such terms are used in 48 C.F.R. 12.212
(Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered
Software with only those rights set forth herein. This U.S. Government Rights
clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or
provision that addresses Government rights in computer software under this
License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. This License shall be governed by the law of the jurisdiction
specified in a notice contained within the Original Software (except
to the
extent applicable law, if any, provides otherwise), excluding such
jurisdiction's conflict-of-law provisions. Any litigation relating to this
License shall be subject to the jurisdiction of the courts located in the
jurisdiction and venue specified in a notice contained within the Original
Software, with the losing party responsible for costs, including, without
limitation, court costs and reasonable attorneys. fees and expenses. The
application of the United Nations Convention on Contracts for the
International Sale of Goods is expressly excluded. Any law or regulation
which provides that the language of a contract shall be construed against
the drafter shall not apply to this License. You agree that You alone are
responsible for compliance with the United States export administration
regulations (and the export control laws and regulation of any other
countries) when You use, distribute or otherwise make available any Covered
 Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible
for claims and damages arising, directly or indirectly, out of its
utilization of rights under this License and You agree to work with Initial
Developer and Contributors to distribute such responsibility on an equitable
basis. Nothing herein is intended or shall be deemed to constitute any
admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State
of California (excluding conflict-of-law provisions). Any litigation relating
to this License shall be subject to the jurisdiction of the Federal Courts of
the Northern District of California and the state courts of the State of
California, with venue lying in Santa Clara County, California.

1.56 asm 9.1

1.56.1 Available under license :

No license file was found, but licenses were detected in source scan.

// All rights reserved.
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions
// are met:
// 1. Redistributions of source code must retain the above copyright
//   notice, this list of conditions and the following disclaimer.
// 2. Redistributions in binary form must reproduce the above copyright
//   notice, this list of conditions and the following disclaimer in the
//   documentation and/or other materials provided with the distribution.
// 3. Neither the name of the copyright holders nor the names of its
//   this software without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-
jar/org/objectweb/asm/RecordComponentVisitor.java
*
 /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-

jar/org/objectweb/asm/MethodTooLargeException.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ModuleVisitor.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ClassTooLargeException.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ClassWriter.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Attribute.java

*
 /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ClassVisitor.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Handler.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/FieldWriter.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Type.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/AnnotationWriter.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Edge.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/MethodWriter.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ByteVector.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Constants.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ConstantDynamic.java

*
 /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Label.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Handle.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Opcodes.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ClassReader.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/AnnotationVisitor.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Frame.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/SymbolTable.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/ModuleWriter.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/MethodVisitor.java

*
 /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/RecordComponentWriter.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/Symbol.java

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/CurrentFrame.java

No license file was found, but licenses were detected in source scan.

*   contributors may be used to endorse or promote products derived from

*   this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"

* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE

* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF

* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS

* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN

* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF

* THE POSSIBILITY OF SUCH DAMAGE.

Found in path(s):

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/package.html

* /opt/cola/permits/1146079232_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/signature/package.html

1.57 istack-commons 3.0.12

1.57.1 Available under license :

/*

* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.

*

* Copyright (c) YYYY Oracle and/or its affiliates. All rights reserved.

*

* The contents of this file are subject to the terms of either the GNU

* General Public License Version 2 only ("GPL") or the Common Development

* and Distribution License("CDDL") (collectively, the "License"). You

* may not use this file except in compliance with the License. You can

* obtain a copy of the License at

* http://glassfish.java.net/public/CDDL+GPL_1_1.html

* or packager/legal/LICENSE.txt. See the License for the specific

* language governing permissions and limitations under the License.

*

* When distributing the software, include this License Header Notice in each

* file and include the License file at packager/legal/LICENSE.txt.

*

* GPL Classpath Exception:

* Oracle designates this particular file as subject to the "Classpath"

* exception as provided by Oracle in the GPL Version 2 section of the License

* file that

 accompanied this code.

*

* Modifications:

* If applicable, add the following below the License Header, with the fields

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)Version 1.1

1. Definitions.

   1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

   1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

   1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

   1.4. "Executable" means the Covered Software in any form other than Source Code.

   1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

   1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

   1.7. "License" means this
 document.

   1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

   1.9. "Modifications" means the Source Code and Executable form of any of the following:

   A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

   B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable
 by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

 (a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the
 Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger

Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof);
and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available
in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices
contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However,

you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software
with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute
and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

   COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED
 SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

   6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

   6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the
 Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

   6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

   6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

   UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER
 INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR

LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

   The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

   This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with
 the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

   As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein
 is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)
The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended
 to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities
 for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish
 to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee
 is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify
 your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

 a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

 b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

 c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these
 conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on

the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
 exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source
 code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable
 runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative
 works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so,

and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of
 this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free
 software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software
 Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision
 will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING
 ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

  One line to give the program's name
 and a brief idea of what it does.

  Copyright (C)

  This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

  This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

  You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision
comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library,
you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Oracle are subject to the following clarification and special exception to the GPL Version 2, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless
of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

1.58 jakarta-mail 1.6.7

1.58.1 Available under license :

Eclipse Public License - v 2.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

  a) in the case of the initial Contributor, the initial content
     Distributed under this Agreement, and

  b) in the case of each subsequent Contributor:
     i) changes to the Program, and
     ii) additions to the Program;
  where such changes and/or additions to the Program originate from
  and are Distributed by that particular Contributor. A Contribution
  "originates" from a Contributor if it was added to the Program by
  such Contributor itself or anyone acting on such Contributor's behalf.
  Contributions do not include changes or additions to the Program that
  are not Modified Works.

  "Contributor" means any person or
 entity that Distributes the Program.

  "Licensed Patents" mean patent claims licensable by a Contributor which
  are necessarily infringed by the use or sale of its Contribution alone
  or when combined with the Program.

  "Program" means the Contributions Distributed in accordance with this
  Agreement.

  "Recipient" means anyone who receives the Program under this Agreement
  or any Secondary License (as applicable), including Contributors.

  "Derivative Works" shall mean any work, whether in Source Code or other
  form, that is based on (or derived from) the Program and for which the
  editorial revisions, annotations, elaborations, or other modifications
  represent, as a whole, an original work of authorship.

  "Modified Works" shall mean any work in Source Code or other form that
  results from an addition to, deletion from, or modification of the
  contents of the Program, including, for purposes of clarity any new file

in Source Code form that
contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free
copyright
license to reproduce, prepare Derivative Works of, publicly display,
publicly perform, Distribute and sublicense the Contribution of such
Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free patent
license under Licensed Patents to make, use, sell, offer to sell,
import and otherwise transfer the Contribution of such Contributor,
if any, in Source Code or other form. This patent license shall
apply to the combination of the Contribution and the Program if, at
the time the Contribution is added by the Contributor, such addition
of the Contribution causes such combination to be covered by the
Licensed Patents. The patent license shall not apply to any other
combinations which include the Contribution. No hardware per se is
licensed hereunder.

c) Recipient understands
that although each Contributor grants the
licenses to its Contributions set forth herein, no assurances are
provided by any Contributor that the Program does not infringe the
patent or other intellectual property rights of any other entity.
Each Contributor disclaims any liability to Recipient for claims
brought by any other entity based on infringement of intellectual
property rights or otherwise. As a condition to exercising the

rights and licenses granted hereunder, each Recipient hereby
assumes sole responsibility to secure any other intellectual
property rights needed, if any. For example, if a third party
patent license is required to allow Recipient to Distribute the
Program, it is Recipient's responsibility to acquire that license
before distributing the Program.

d) Each Contributor represents that to its knowledge it has
sufficient copyright rights in its Contribution, if any, to grant

the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no
Contributor makes additional grants to any Recipient (other than
those set forth in this Agreement) as a result of such Recipient's
receipt of the Program under the terms of a Secondary License
(if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in
accordance with section 3.2, and the Contributor must accompany
the Program with a statement that the Source Code for the Program
is available under this Agreement, and informs Recipients how to
obtain it in a reasonable manner on or through a medium customarily
used for software exchange; and

b) the Contributor may Distribute the Program under a license
different than this Agreement, provided that such license:
   i) effectively disclaims on behalf of all other Contributors all
   warranties and conditions, express and implied, including
   warranties or conditions of title and non-infringement, and
   implied warranties or conditions of merchantability and fitness
   for a particular purpose;

   ii) effectively excludes on behalf of all other Contributors all
   liability for damages, including direct, indirect, special,
   incidental and consequential damages, such as lost profits;

   iii) does not attempt to limit or alter the recipients' rights
   in the Source Code under section 3.2; and

   iv) requires any subsequent distribution of the Program by any
   party to be under a license that satisfies the requirements
   of this section 3.

3.2 When the Program is Distributed as Source Code:

   a) it must be made available under this Agreement, or if the
   Program (i) is combined with other material
in a separate file or
   files made available under a Secondary License, and (ii) the initial
   Contributor attached to the Source Code the notice described in
   Exhibit A of this Agreement, then the Program may be made available
   under the terms of such Secondary Licenses, and

   b) a copy of this Agreement must be included with each copy of
   the Program.

   3.3 Contributors may not remove or alter any copyright, patent,
   trademark, attribution notices, disclaimers of warranty, or limitations
   of liability ("notices") contained within the Program from any copy of
   the Program which they Distribute, provided that Contributors may add
   their own appropriate notices.

   4. COMMERCIAL DISTRIBUTION

   Commercial distributors of software may accept certain responsibilities
   with respect to end users, business partners and the like. While this
   license is intended to facilitate the commercial use of the Program,
   the Contributor who includes
the Program in a commercial product
   offering should do so in a manner which does not create potential
   liability for other Contributors. Therefore, if a Contributor includes
   the Program in a commercial product offering, such Contributor
   ("Commercial Contributor") hereby agrees to defend and indemnify every
   other Contributor ("Indemnified Contributor") against any losses,
   damages and costs (collectively "Losses") arising from claims, lawsuits
   and other legal actions brought by a third party against the Indemnified
   Contributor to the extent caused by the acts or omissions of such
   Commercial Contributor in connection with its distribution of the Program
   in a commercial product offering. The obligations in this section do not
   apply to any claims or Losses relating to any actual or alleged
   intellectual property infringement. In order to qualify, an Indemnified
   Contributor must: a) promptly notify the Commercial Contributor in
   writing
of such claim, and b) allow the Commercial Contributor to control,
   and cooperate with the Commercial Contributor in, the defense and any
   related settlement negotiations. The Indemnified Contributor may
   participate in any such claim at its own expense.

   For example, a Contributor might include the Program in a commercial
   product offering, Product X. That Contributor is then a Commercial
   Contributor. If that Commercial Contributor then makes performance

claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN
THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other

software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves
the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel
or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),
version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A
is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular

file, then You may include the notice in a location (such as a LICENSE

file in a relevant directory) where a recipient would be likely

to

look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.)
You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.

And you
must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed
at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted,
and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to

this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications
or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any part
thereof, to be licensed as a whole at no charge to all third parties
under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a notice
that there is no warranty (or else, saying that you provide a
warranty) and that users may redistribute the program under these
conditions, and telling the user how
to view a copy of this License.
(Exception: if the Program itself is interactive but does not
normally print such an announcement, your work based on the Program
is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you;
rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost

of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will

automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have
their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible
for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular
circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that

system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted
in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free
Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER
EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH

YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF
TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

  The hypothetical commands `show
w' and `show c' should show the
  appropriate parts of the General Public License. Of course, the commands
  you use may be called something other than `show w' and `show c'; they
  could even be mouse-clicks or menu items--whatever suits your program.

  You should also get your employer (if you work as a programmer) or your
  school, if any, to sign a "copyright disclaimer" for the program, if
  necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

  This General Public License does not permit incorporating your program
  into proprietary programs. If your program is a subroutine library, you
  may consider it more useful to permit linking proprietary applications
  with the library. If this is what you want to do, use the GNU
 Library
  General Public License instead of this License.

CLASSPATH EXCEPTION

  Linking this library statically or dynamically with other modules is
  making a combined work based on this library. Thus, the terms and
  conditions of the GNU General Public License version 2 cover the whole
  combination.

  As a special exception, the copyright holders of this library give you
  permission to link this library with independent modules to produce an
  executable, regardless of the license terms of these independent
  modules, and to copy and distribute the resulting executable under
  terms of your choice, provided that you also meet, for each linked
  independent module, the terms and conditions of the license of that
  module. An independent module is a module which is not derived from or
  based on this library. If you modify this library, you may extend this

exception to your version of the library, but you are not obligated to
do so. If
you do not wish to do so, delete this exception statement
from your version.
Notices for Jakarta Mail

This content is produced and maintained by the Jakarta Mail project.

* Project home: https://projects.eclipse.org/projects/ee4j.mail

Trademarks

Jakarta Mail is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0
 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/mail

Third-party Content

This project leverages the following third party content.

None

Cryptography

Content may contain encryption software. The country in which you are currently

may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted.

1.59 activation-api 1.2.0

1.59.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

1. Definitions.

1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form other than Source Code.

1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation,
method, process,
and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual
property claims, the Initial Developer
hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You
delete from the Original Software, or
(2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor
Version (or portions of such
combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software

in the absence of
  Modifications made by that Contributor.

3. Distribution Obligations.

  3.1. Availability of Source Code.

  Any Covered Software that You distribute or otherwise make available
  in Executable form must also be made available in Source Code form
  and that Source Code form must be distributed only under the terms
  of this License. You must include a copy of this License with every
  copy of the Source Code form of the Covered Software You distribute
  or otherwise make available. You must inform recipients of any such
  Covered Software in Executable form as to how they can obtain such
  Covered Software in Source Code form in a reasonable manner on or
  through a medium customarily used for software exchange.

  3.2. Modifications.

  The Modifications that You create or to which You contribute are
  governed by the terms of this License. You represent that You
  believe Your Modifications are Your original creation(s) and/or You
   have sufficient rights to grant the rights conveyed by this License.

  3.3. Required Notices.

  You must include a notice in each of Your Modifications that
  identifies You as the Contributor of the Modification. You may not
  remove or alter any copyright, patent or trademark notices contained
  within the Covered Software, or any notices of licensing or any
  descriptive text giving attribution to any Contributor or the
  Initial Developer.

  3.4. Application of Additional Terms.

  You may not offer or impose any terms on any Covered Software in
  Source Code form that alters or restricts the applicable version of
  this License or the recipients' rights hereunder. You may choose to
  offer, and to charge a fee for, warranty, support, indemnity or
  liability obligations to one or more recipients of Covered Software.
  However, you may do so only on Your own behalf, and not on behalf of
  the Initial Developer or any Contributor. You must make
it
  absolutely clear that any such warranty, support, indemnity or
  liability obligation is offered by You alone, and You hereby agree
  to indemnify the Initial Developer and every Contributor for any
  liability incurred by the Initial Developer or such Contributor as a
  result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under
the terms of this License or under the terms of a license of Your
choice, which may contain terms different from this License,
provided that You are in compliance with the terms of this License
and that the license for the Executable form does not attempt to
limit or alter the recipient's rights in the Source Code form from
the rights set forth in this License. If You distribute the Covered
Software in Executable form under a different license, You must make
it absolutely clear that any
terms which differ from this License
are offered by You alone, not by the Initial Developer or
Contributor. You hereby agree to indemnify the Initial Developer and
every Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with
other code not governed by the terms of this License and distribute
the Larger Work as a single product. In such a case, You must make
sure the requirements of this License are fulfilled for the Covered
Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or
new versions of this License from time to time. Each version will be
given a distinguishing version number. Except as provided in Section
4.3, no one other than the license steward has the right to modify
this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the
Covered Software available under the terms of the version of the
License under which You originally received the Covered Software. If
the Initial Developer includes a notice in the Original Software
prohibiting it from being distributed or otherwise made available
under any subsequent version of the License, You must distribute and
make the Covered Software available under the terms of the version
of the License under which You originally received the Covered
Software. Otherwise, You may also choose to use, distribute or

otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License
if You: (a) rename the license and
remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED
HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer
(if the
Initial Developer is not the Participant) and all Contributors under

Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
from Participant terminate prospectively and automatically at the
expiration of such 60 day notice period, unless if within such 60
day period You withdraw Your claim with respect to the Participant
Software against such Participant either unilaterally or pursuant to
a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant
alleging that the Participant Software directly or indirectly
infringes any patent where such claim is resolved (such as by
license or settlement) prior to the initiation of patent
infringement litigation, then the reasonable value of the licenses
granted by such Participant under Sections 2.1 or 2.2 shall be taken
into account in determining the amount or value of any payment or
license.

6.4. In the event of termination
under Sections 6.1 or 6.2 above,
all end user licenses that have been validly granted by You or any
distributor hereunder prior to termination (excluding licenses
granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
(INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT
APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY
RESULTING FROM SUCH
PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined
in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
software" (as that term is defined at 48 C.F.R.
252.227-7014(a)(1)) and "commercial computer software documentation"
as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent

with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
(June 1995), all U.S. Government End Users acquire Covered Software
with only those rights set forth herein. This U.S. Government Rights
clause is in lieu of, and supersedes, any other FAR, DFAR, or other
clause or provision that addresses Government rights in computer

software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. This License shall be governed by
the law of the jurisdiction specified in a notice contained within
the Original Software (except to the extent applicable law, if any,
provides otherwise), excluding such jurisdiction's conflict-of-law
provisions. Any litigation relating to this License shall be subject
to the jurisdiction of the courts located in the jurisdiction and
venue specified in a notice contained within the Original Software,
with the losing party responsible for costs, including, without
limitation, court costs and reasonable attorneys' fees and expenses.
The application of the United Nations Convention on Contracts for
the International Sale of
Goods is expressly excluded. Any law or
regulation which provides that the language of a contract shall be
construed against the drafter shall not apply to this License. You
agree that You alone are responsible for compliance with the United
States export administration regulations (and the export control
laws and regulation of any other countries) when You use, distribute
or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is
responsible for claims and damages arising, directly or indirectly,
out of its utilization of rights under this License and You agree to
work with Initial Developer and Contributors to distribute such
responsibility on an equitable basis. Nothing herein is intended or
shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION
 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the

State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users.
 This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute
 copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making
 the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this
 License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy
 and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any part
  thereof, to be licensed as a whole at no charge to all third parties
  under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a notice
  that there is no warranty (or else, saying that you provide a
  warranty) and that users may redistribute the program under these
  conditions, and telling the user how to view a copy of this License.
   (Exception: if the Program itself is interactive but does not
  normally print such an announcement, your work based on the Program
  is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative
 or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under
 the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs,
 unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works.
 These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License,
 they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software
 distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation
 may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be
 guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY

AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
 GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

   One line to give the program's name and a brief
 idea of what it does.
   Copyright (C) <year> <name of author>

   This program is free software; you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation; either version 2 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful, but
   WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
   General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program; if not, write to the Free Software
   Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

   Gnomovision version
 69, Copyright (C) year name of author
   Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type

`show w'. This is free software, and you are welcome to redistribute
it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (which makes passes at compilers) written by
James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your
 program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU Library
General Public License instead of this License.

#

Certain source files distributed by Oracle America, Inc. and/or its
affiliates are subject to the following clarification and special
exception to the GPLv2, based on the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only
where Oracle has expressly included in the particular source file's
header the words "Oracle designates this particular file as subject to
the "Classpath" exception as provided by Oracle in the LICENSE file
that accompanied this code."

You should also note that Oracle includes multiple, independent
programs in this software package. Some of those programs are provided
under licenses deemed incompatible with the GPLv2 by the Free Software
Foundation and
 others. For example, the package includes programs
licensed under the Apache License, Version 2.0. Such programs are
licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding
the Classpath Exception to the necessary parts of its GPLv2 code, which
permits you to use that code in combination with other independent

modules not licensed under the GPLv2. However, note that this would
not permit you to commingle code under an incompatible license with
Oracle's GPLv2 licensed code by, for example, cutting and pasting such
code into a file also containing Oracle's GPLv2 licensed code and then
distributing the result. Additionally, if you were to remove the
Classpath Exception from any of the files to which it applies and
distribute the result, you would likely be required to license some or
all of the other code in that distribution under the GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items
included
 in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library. Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet,
 for each linked
independent module, the terms and conditions of the license of that
module. An independent module is a module which is not derived from or
based on this library. If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so. If you do not wish to do so, delete this exception statement
from your version.

1.60 commons-lang3 3.12.0

1.60.1 Available under license :

Apache Commons Lang
Copyright 2001-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.61 bouncy-castle 1.69

1.61.1 Available under license :

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
 IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
 CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,

PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
JUnit

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

   a) in the case of the initial Contributor, the initial code and
      documentation distributed under this Agreement, and
   b) in the case of each subsequent Contributor:

   i) changes to the Program, and

   ii) additions to the Program;

   where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates' from a
Contributor if it was added to the Program by such Contributor itself or anyone
acting on such Contributor's behalf. Contributions do not include additions to
the Program which: (i) are separate modules of software distributed in
conjunction with the Program under their own license agreement, and
 (ii) are
not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS

   a) Subject to the terms of this Agreement, each Contributor hereby grants

Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free
 patent license under
Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise.
 As a condition to
exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied
 warranties or conditions of merchantability
and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution,
 if
any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection
 with its distribution of the Program in a commercial product
offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may

participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If that
Commercial Contributor then makes performance claims, or offers warranties
related to Product X, those performance claims and warranties are such
Commercial Contributor's responsibility alone. Under this section, the
Commercial Contributor would have to defend claims
 against the other
Contributors related to those performance claims and warranties, and if a court
requires any other Contributor to pay any damages as a result, the Commercial
Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using
and distributing the Program and assumes all risks associated with its exercise
of rights under this Agreement, including but not limited to the risks and
costs of program errors, compliance with applicable laws, damage to or loss of
data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS
 AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable
law, it shall not affect the validity or enforceability of the remainder of the
terms of this Agreement, and without further action by the parties hereto, such
provision shall be reformed to the minimum extent necessary to make such
provision valid and enforceable.

If Recipient institutes patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging that the
Program

itself (excluding combinations of the Program with other software or
hardware) infringes such Recipient's patent(s), then such Recipient's rights
granted under Section 2(b) shall terminate as of the date such litigation is
filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and does
not cure such failure in a reasonable period of time after becoming aware of
such noncompliance. If all Recipient's rights under this Agreement terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient's obligations under this Agreement
and any licenses granted by Recipient relating to the Program shall continue
and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves
 the right to
publish new versions (including revisions) of this Agreement from time to time.
No one other than the Agreement Steward has the right to modify this Agreement.
The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to
serve as the Agreement Steward to a suitable separate entity. Each new version
of the Agreement will be given a distinguishing version number. The Program
(including Contributions) may always be distributed subject to the version of
the Agreement under which it was received. In addition, after a new version of
the Agreement is published, Contributor may elect to distribute the Program
(including its Contributions) under the new version. Except as expressly stated
in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to
the intellectual property of any Contributor under this Agreement, whether
expressly, by implication, estoppel or otherwise. All rights in the Program not
expressly granted
 under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury trial
in any resulting litigation.
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

  1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

  1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a
Contributor (if any), and the Modifications made by that particular Contributor.

  1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files

containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8.
Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12.
Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under
 intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software
 with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the
 combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.
Any Covered Software that You distribute or otherwise make available in Executable form must also be made available

in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices
contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients. rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You
offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient.s rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered
Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the

License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES
THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses

that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY.S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS
DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item,. as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and .commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction.s conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys. fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for
compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer

and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California
and the state courts of the State of California, with venue lying in Santa Clara County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software,
 we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer
 you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to

know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any
 program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute
 verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

 a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

 b) You must cause any work that you distribute or publish, that in
 whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

 c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and

that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in
 themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or
 executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code
 for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute
 the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties

who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF
 ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These
 Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

 One line to give the program's name and a brief idea of what it does.

 Copyright (C)

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
 or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits
 your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

  signature of Ty Coon, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL VERSION 2

Certain source files distributed by Sun Microsystems, Inc. are subject to the following clarification and special exception to the GPL Version 2, but only where Sun has expressly included in the particular
 source file's header the words

"Sun designates this particular file as subject to the "Classpath" exception as provided by Sun in the License file that accompanied this code."

Linking this library statically or dynamically with other modules is making a combined work based on this library.

Thus, the terms and conditions of the GNU General Public License Version 2 cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module.? An independent module is a module which is not derived from or based on this library.? If you modify this library, you may extend this exception to your version of the library, but
 you are not obligated to do so.? If you do not wish to do so, delete this exception statement from your version.
Eclipse Public License - v 2.0

   THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE
   PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION
   OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

  1. DEFINITIONS

  "Contribution" means:

   a) in the case of the initial Contributor, the initial content
      Distributed under this Agreement, and

   b) in the case of each subsequent Contributor:
      i) changes to the Program, and
      ii) additions to the Program;
   where such changes and/or additions to the Program originate from
   and are Distributed by that particular Contributor. A Contribution
   "originates" from a Contributor if it was added to the Program by
   such Contributor itself or anyone acting on such Contributor's behalf.
   Contributions do not include changes or additions to the Program that
   are not Modified Works.

  "Contributor" means any person or
 entity that Distributes the Program.

  "Licensed Patents" mean patent claims licensable by a Contributor which
   are necessarily infringed by the use or sale of its Contribution alone
   or when combined with the Program.

  "Program" means the Contributions Distributed in accordance with this
   Agreement.

  "Recipient" means anyone who receives the Program under this Agreement
   or any Secondary License (as applicable), including Contributors.

  "Derivative Works" shall mean any work, whether in Source Code or other
   form, that is based on (or derived from) the Program and for which the
   editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that
results from an addition to, deletion from, or modification of the
contents of the Program, including, for purposes of clarity any new file
in Source Code form that
contains any contents of the Program. Modified
Works shall not include works that contain only declarations,
interfaces, types, classes, structures, or files of the Program solely
in each case in order to link to, bind by name, or subclass the Program
or Modified Works thereof.

"Distribute" means the acts of a) distributing or b) making available
in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making
modifications, including but not limited to software source code,
documentation source, and configuration files.

"Secondary License" means either the GNU General Public License,
Version 2.0, or any later versions of that license, including any
exceptions or additional permissions as identified by the initial
Contributor.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free
copyright
license to reproduce, prepare Derivative Works of, publicly display,
publicly perform, Distribute and sublicense the Contribution of such
Contributor, if any, and such Derivative Works.

b) Subject to the terms of this Agreement, each Contributor hereby
grants Recipient a non-exclusive, worldwide, royalty-free patent
license under Licensed Patents to make, use, sell, offer to sell,
import and otherwise transfer the Contribution of such Contributor,
if any, in Source Code or other form. This patent license shall
apply to the combination of the Contribution and the Program if, at
the time the Contribution is added by the Contributor, such addition
of the Contribution causes such combination to be covered by the
Licensed Patents. The patent license shall not apply to any other
combinations which include the Contribution. No hardware per se is
licensed hereunder.

c) Recipient understands
that although each Contributor grants the
licenses to its Contributions set forth herein, no assurances are

provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to Distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant

the copyright license set forth in this Agreement.

e) Notwithstanding the terms of any Secondary License, no Contributor makes additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS

3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:
   i) effectively disclaims on behalf of all other Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

   ii) effectively excludes on behalf of all other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

   iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any
party to be under a license that satisfies the requirements
of this section 3.

3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the
Program (i) is combined with other material
in a separate file or
files made available under a Secondary License, and (ii) the initial
Contributor attached to the Source Code the notice described in
Exhibit A of this Agreement, then the Program may be made available
under the terms of such Secondary Licenses, and

b) a copy of this Agreement must be included with each copy of
the Program.

3.3 Contributors may not remove or alter any copyright, patent,
trademark, attribution notices, disclaimers of warranty, or limitations
of liability ("notices") contained within the Program from any copy of
the Program which they Distribute, provided that Contributors may add
their own appropriate notices.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
with respect to end users, business partners and the like. While this
license is intended to facilitate the commercial use of the Program,
the Contributor who includes
the Program in a commercial product
offering should do so in a manner which does not create potential
liability for other Contributors. Therefore, if a Contributor includes
the Program in a commercial product offering, such Contributor
("Commercial Contributor") hereby agrees to defend and indemnify every
other Contributor ("Indemnified Contributor") against any losses,
damages and costs (collectively "Losses") arising from claims, lawsuits
and other legal actions brought by a third party against the Indemnified
Contributor to the extent caused by the acts or omissions of such
Commercial Contributor in connection with its distribution of the Program
in a commercial product offering. The obligations in this section do not
apply to any claims or Losses relating to any actual or alleged
intellectual property infringement. In order to qualify, an Indemnified
Contributor must: a) promptly notify the Commercial Contributor in
writing
of such claim, and b) allow the Commercial Contributor to control,
and cooperate with the Commercial Contributor in, the defense and any
related settlement negotiations. The Indemnified Contributor may

participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial
product offering, Product X. That Contributor is then a Commercial
Contributor. If that Commercial Contributor then makes performance
claims, or offers warranties related to Product X, those performance
claims and warranties are such Commercial Contributor's responsibility
alone. Under this section, the Commercial Contributor would have to
defend claims against the other Contributors related to those performance
claims and warranties, and if a court requires any other Contributor to
pay any damages as a result, the Commercial Contributor must pay
those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN
THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, THE PROGRAM IS PROVIDED ON AN "AS IS"
BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF
TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE. Each Recipient is solely responsible for determining the
appropriateness of using and distributing the Program and assumes all
risks associated with its exercise of rights under this Agreement,
including but not limited to the risks and costs of program errors,
compliance with applicable laws, damage to or loss of data, programs
or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, AND TO THE EXTENT
PERMITTED BY APPLICABLE LAW, NEITHER RECIPIENT NOR ANY CONTRIBUTORS
SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE
EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under
applicable law, it shall not affect the validity or enforceability of
the remainder of the terms of this Agreement, and without further
action by the parties hereto, such provision shall be reformed to the
minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the
Program itself (excluding combinations of the Program with other
software
or hardware) infringes such Recipient's patent(s), then such Recipient's
rights granted under Section 2(b) shall terminate as of the date such
litigation is filed.

All Recipient's rights under this Agreement shall terminate if it
fails to comply with any of the material terms or conditions of this
Agreement and does not cure such failure in a reasonable period of
time after becoming aware of such noncompliance. If all Recipient's
rights under this Agreement terminate, Recipient agrees to cease use
and distribution of the Program as soon as reasonably practicable.
However, Recipient's obligations under this Agreement and any licenses
granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement,
but in order to avoid inconsistency the Agreement is copyrighted and
may only be modified in the following manner. The Agreement Steward
reserves
the right to publish new versions (including revisions) of
this Agreement from time to time. No one other than the Agreement
Steward has the right to modify this Agreement. The Eclipse Foundation
is the initial Agreement Steward. The Eclipse Foundation may assign the
responsibility to serve as the Agreement Steward to a suitable separate
entity. Each new version of the Agreement will be given a distinguishing
version number. The Program (including Contributions) may always be
Distributed subject to the version of the Agreement under which it was
received. In addition, after a new version of the Agreement is published,
Contributor may elect to Distribute the Program (including its
Contributions) under the new version.

Except as expressly stated in Sections 2(a) and 2(b) above, Recipient
receives no rights or licenses to the intellectual property of any
Contributor under this Agreement, whether expressly, by implication,
estoppel
or otherwise. All rights in the Program not expressly granted
under this Agreement are reserved. Nothing in this Agreement is intended
to be enforceable by any entity that is not a Contributor or Recipient.
No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice

"This Source Code may also be made available under the following
Secondary Licenses when the conditions for such availability set forth
in the Eclipse Public License, v. 2.0 are satisfied: {name license(s),

version(s), and exceptions or additional permissions here}."

Simply including a copy of this Agreement, including this Exhibit A
is not sufficient to license the Source Code under Secondary Licenses.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely
to
look for such a notice.

You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to
share and change it. By contrast, the GNU General Public License is
intended to guarantee your freedom to share and change free software--to
make sure the software is free for all its users. This General Public
License applies to most of the Free Software Foundation's software and
to any other program whose authors commit to using it. (Some other Free
Software Foundation software is covered by the GNU Library General
Public License instead.)
You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.
Our General Public Licenses are designed to make sure that you have the
freedom to distribute copies of free software (and charge for this
service if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone
to deny you these rights or to ask you to surrender the rights. These
restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis
or for a fee, you must give the recipients all the rights that you have.
You must make sure that they, too, receive or can get the source code.
And you
must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed
at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted,
and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications
or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any part
thereof, to be licensed as a whole at no charge to all third parties
under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a notice
that there is no warranty (or else, saying that you provide a
warranty) and that users may redistribute the program under these
conditions, and telling the user how
to view a copy of this License.
(Exception: if the Program itself is interactive but does not
normally print such an announcement, your work based on the Program
is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you;

rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections 1
and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your cost

of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to
distribute corresponding source code. (This alternative is allowed
only for noncommercial distribution and only if you received the
program in object code or executable form with such an offer, in
accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed
need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have
their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible
for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular
circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted
in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free
Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,

EITHER
EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF
TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

This program is distributed in the hope that it will be useful, but
    WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
    `show w'. This is free software, and you are welcome to redistribute
    it under certain conditions; type `show c' for details.

The hypothetical commands `show
w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (which makes passes at compilers) written by
    James Hacker.

    signature of Ty Coon, 1 April 1989
    Ty Coon, President of Vice

This General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications
with the library. If this is what you want to do, use the GNU
Library
General Public License instead of this License.

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is
making a combined work based on this library. Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under

terms of your choice, provided that you also meet, for each linked

independent module, the terms and conditions of the license of that

module. An independent module is a module which is not derived from or

based on this library. If you modify this library, you may extend this

exception to your version of the library, but you are not obligated to

do so. If

you do not wish to do so, delete this exception statement

from your version.

Notices for Jakarta Mail

This content is produced and maintained by the Jakarta Mail project.

* Project home: https://projects.eclipse.org/projects/ee4j.mail

Trademarks

Jakarta Mail is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v. 2.0 which is available at
http://www.eclipse.org/legal/epl-2.0. This Source Code may also be made
available under the following Secondary Licenses when the conditions for such
availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU
General Public License, version 2 with the GNU Classpath Exception which is
available at https://www.gnu.org/software/classpath/license.html.

SPDX-License-Identifier: EPL-2.0
 OR GPL-2.0 WITH Classpath-exception-2.0

Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/mail

Third-party Content

This project leverages the following third party content.

None

Cryptography

Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted.

Notices for Jakarta Activation

This content is produced and maintained by Jakarta Activation project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaf

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Distribution License v. 1.0, which is available at http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaf

Third-party Content

This project leverages the following third party content.

JUnit (4.12)

* License: Eclipse Public License

1.62 jakarta xml bind api 2.3.3

1.62.1 Available under license :

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. "Contributor" means each individual or entity that
creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the
Original Software, prior Modifications used by a
Contributor (if any), and the Modifications made by that
particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or
(b) Modifications, or (c) the combination of files
containing Original Software with files containing
Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form
other than Source Code.

1.5. "Initial Developer" means the individual or entity
that first makes Original Software available under this
License.

1.6. "Larger Work" means a work which combines Covered
Software or portions thereof with code not governed by the
terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means
 having the right to grant, to the
maximum extent possible, whether at the time of the initial
grant or subsequently acquired, any and all of the rights
conveyed herein.

1.9. "Modifications" means the Source Code and Executable
form of any of the following:

A. Any file that results from an addition to,
deletion from or modification of the contents of a
file containing Original Software or previous
Modifications;

B. Any new file that contains any part of the
Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made
available under the terms of this License.

1.10. "Original Software" means the Source Code and
Executable form of computer software code that is
originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned
or hereafter acquired, including without limitation,
method, process, and apparatus claims, in any patent
Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer
software
 code in which modifications are made and (b)
associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal
entity exercising rights under, and complying with all of
the terms of, this License. For legal entities, "You"
includes any entity which controls, is controlled by, or is
under common control with You. For purposes of this
definition, "control" means (a) the power, direct or
indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (b) ownership
of more than fifty percent (50%) of the outstanding shares
or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and
subject to third party intellectual property claims, the
Initial Developer hereby grants You a world-wide,
royalty-free, non-exclusive license:

(a) under intellectual property rights (other than
patent or trademark) Licensable
 by Initial Developer,
to use, reproduce, modify, display, perform,
sublicense and distribute the Original Software (or
portions thereof), with or without Modifications,
and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making,
using or selling of Original Software, to make, have
made, use, practice, sell, and offer for sale, and/or

otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance
 with Section 3.1 below and
subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c)
 The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License
 with every copy of the
Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application

of Additional Terms.

You may not offer or impose any terms on any Covered
Software in Source Code form that alters or restricts the
applicable version of this License or the recipients'
rights hereunder. You may choose to offer, and to charge a
fee for, warranty, support, indemnity or liability
obligations to one or more recipients of Covered Software.
However, you may do so only on Your own behalf, and not on
behalf of the Initial Developer or any Contributor. You
must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by
You alone, and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred
by the Initial Developer or such Contributor as a result of
warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered
Software under the terms of this License or under the terms
of a license of
 Your choice, which may contain terms
different from this License, provided that You are in
compliance with the terms of this License and that the
license for the Executable form does not attempt to limit
or alter the recipient's rights in the Source Code form
from the rights set forth in this License. If You
distribute the Covered Software in Executable form under a
different license, You must make it absolutely clear that
any terms which differ from this License are offered by You
alone, not by the Initial Developer or Contributor. You
hereby agree to indemnify the Initial Developer and every
Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of any such terms
You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software
with other code not governed by the terms of this License
and distribute the Larger Work as a single product. In such
a case, You must make sure the requirements of this License
are fulfilled
 for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and
may publish revised and/or new versions of this License
from time to time. Each version will be given a
distinguishing version number. Except as provided in
Section 4.3, no one other than the license steward has the
right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise
make the Covered Software available under the terms of the
version of the License under which You originally received
the Covered Software. If the Initial Developer includes a
notice in the Original Software prohibiting it from being
distributed or otherwise made available under any
subsequent version of the License, You must distribute and
make the Covered Software available under the terms of the
version of the License under which You originally received
the Covered Software. Otherwise, You may also choose to
use, distribute
 or otherwise make the Covered Software
available under the terms of any subsequent version of the
License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a
new license for Your Original Software, You may create and
use a modified version of this License if You: (a) rename
the license and remove any references to the name of the
license steward (except to note that the license differs
from this License); and (b) otherwise make it clear that
the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS"
BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED
SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR
PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY
COVERED SOFTWARE PROVE
 DEFECTIVE IN ANY RESPECT, YOU (NOT THE
INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF
ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF

WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original
 Software where the Participant is the
Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER
 TORT
(INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR

CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK
STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN
INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF
LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL
INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT
APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO
NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR
CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT
APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is
defined in 48 C.F.R.
 2.101 (Oct. 1995), consisting of "commercial
computer software" (as that term is defined at 48 C.F.R.
252.227-7014(a)(1)) and "commercial computer software
documentation" as such terms are used in 48 C.F.R. 12.212 (Sept.
1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
through 227.7202-4 (June 1995), all U.S. Government End Users
acquire Covered Software with only those rights set forth herein.
This U.S. Government Rights clause is in lieu of, and supersedes,
any other FAR, DFAR, or other clause or provision that addresses
Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the
extent necessary to make it enforceable. This License shall be
governed by the law of the jurisdiction specified in a notice
contained within the Original Software (except to the extent
applicable
 law, if any, provides otherwise), excluding such
jurisdiction's conflict-of-law provisions. Any litigation
relating to this License shall be subject to the jurisdiction of
the courts located in the jurisdiction and venue specified in a
notice contained within the Original Software, with the losing
party responsible for costs, including, without limitation, court
costs and reasonable attorneys' fees and expenses. The
application of the United Nations Convention on Contracts for the
International Sale of Goods is expressly excluded. Any law or
regulation which provides that the language of a contract shall
be construed against the drafter shall not apply to this License.
You agree that You alone are responsible for compliance with the

United States export administration regulations (and the export

control laws and regulation of any other countries) when You use,

distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial
 Developer and the Contributors, each party is

responsible for claims and damages arising, directly or

indirectly, out of its utilization of rights under this License

and You agree to work with Initial Developer and Contributors to

distribute such responsibility on an equitable basis. Nothing

herein is intended or shall be deemed to constitute any admission

of liability.

/*

* Copyright (c) 2005, 2019 Oracle and/or its affiliates. All rights reserved.

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0, which is available at

* http://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Eclipse Distribution License - v 1.0

Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2017, 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

   - Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.

   - Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.

   - Neither the name of the Eclipse Foundation, Inc. nor the names of its
     contributors may be used to endorse or promote products derived
     from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,

THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
[//]: # " Copyright (c) 2018, 2019 Oracle and/or its affiliates. All rights reserved. "
[//]: # " "
[//]: # " This program and the accompanying materials are made available under the "
[//]: # " terms of the Eclipse Distribution License v. 1.0, which is available at "
[//]: # " http://www.eclipse.org/org/documents/edl-v10.php. "
[//]: # " "
[//]: # " SPDX-License-Identifier: BSD-3-Clause "

Notices for Jakarta XML Binding

This content is produced and maintained by the Jakarta XML Binding
project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxb

Trademarks

Jakarta XML Binding is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Distribution License v. 1.0
 which is available at
http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-api
* https://github.com/eclipse-ee4j/jaxb-tck

Third-party Content

This project leverages the following third party content.

Apache River (3.0.0)

* License: Apache-2.0 AND BSD-3-Clause

ASM 7 (n/a)

* License: BSD-3-Clause
* Project: https://asm.ow2.io/
* Source:
  https://repository.ow2.org/nexus/#nexus-search;gav~org.ow2.asm~asm-commons~~~~kw,versionexpand

JTHarness (5.0)

* License: (GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0)
* Project: https://wiki.openjdk.java.net/display/CodeTools/JT+Harness
* Source: http://hg.openjdk.java.net/code-tools/jtharness/

normalize.css (3.0.2)

* License: MIT

SigTest (n/a)

* License: GPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

Cryptography

Content may contain encryption software. The country in which
 you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

1.63 commons-io 2.11.0

1.63.1 Available under license :

Apache Commons IO
Copyright 2002-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
 of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.64 zipkin 2.23.2

1.64.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,

---

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License,
each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
   Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
   stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
   that You distribute, all copyright, patent, trademark, and
   attribution notices from the Source form of the Work,
   excluding those notices that do not pertain to any part of
   the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
   distribution, then any Derivative Works that You distribute must
   include a readable copy of the attribution notices contained
   within such NOTICE file, excluding
those notices that do not
   pertain to any part of the Derivative Works, in at least one
   of the following places: within a NOTICE text file distributed
   as part of the Derivative Works; within the Source form or
   documentation, if provided along with the Derivative Works; or,
   within a display generated by the Derivative Works, if and
   wherever such third-party notices normally appear. The contents
   of the NOTICE file are for informational purposes only and
   do not modify the License. You may add Your own attribution
   notices within Derivative Works that You distribute, alongside
   or as an addendum to the NOTICE text from the Work, provided
   that such additional attribution notices cannot be construed
   as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This product contains a modified part of Gson, distributed by Google:

 * License: Apache License v2.0
 * Homepage: https://github.com/google/gson

This product contains a modified part of Guava, distributed by Google:

 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified part of Okio, distributed by Square:

 * License: Apache License v2.0
 * Homepage: https://github.com/square/okio

1.65 zipkin-reporter 2.16.3

1.65.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

1.66 sshd-core 2.7.0
1.66.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
 of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache MINA SSHD
Copyright 2008-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

1.67 sshd-common 2.7.0

1.67.1 Available under license :

Apache MINA SSHD
Copyright 2018-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.68 commons-compress 1.21

1.68.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License,
each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Apache Commons Compress
Copyright 2002-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

The files in the package org.apache.commons.compress.archivers.sevenz
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (http://www.7-zip.org/sdk.html)

The test file lbzip2_32767.bz2 has been copied from libbzip2's source
repository:

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2019 Julian R Seward. All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented;
 you must
   not claim that you wrote the original software. If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER
 IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@acm.org

1.69 aspect-j 1.9.7

1.69.1 Available under license :

Found license 'Eclipse Public License 1.0' in '* All rights reserved. This program and the accompanying materials * are made available under the terms of the Eclipse Public License v 2.0'

Found license 'Eclipse Public License 1.0' in '* All rights reserved. * This program and the accompanying materials are made available * under the terms of the Eclipse Public License v 2.0'

1.70 mongo-java-driver 3.12.10

1.70.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2008-present MongoDB, Inc.

* Copyright 2017 Tom Bentley

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/authentication/SaslPrep.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2008-present MongoDB, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/IdGenerator.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonCodec.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonCodecProvider.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/IdGenerators.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/AggregationLevel.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original Work: MIT License, Copyright (c) [2015-2018] all contributors
* https://github.com/marianobarrios/tls-channel
*/

Found in path(s):
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/util/TlsChannelCallbackException.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java
*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/tlschannel/util/Util.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
* Copyright 2018 Cezary Bartosiak
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/jsr310/InstantCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/jsr310/LocalTimeCodec.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/jsr310/Jsr310CodecProvider.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/jsr310/LocalDateCodec.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
* Copyright 2010 The Guava Authors
* Copyright 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/internal/UnsignedLongs.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/annotations/Beta.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.

Found in path(s):
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/assertions/Assertions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/assertions/Assertions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/util/CopyOnWriteMap.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/util/AbstractCopyOnWriteMap.java
No license file was found, but licenses were detected in source scan.

/**
  * Writes a sequence of bytesProduced to this channel from a subsequence of the
  * given buffers.

```
 *
 * <p>
 * See {@link GatheringByteChannel#write(ByteBuffer[], int, int)} for
more
 * details of the meaning of this signature.
 *
 * <p>
 * This method behaves slightly different than the interface specification,
 * with respect to non-blocking responses, see {@link #write(ByteBuffer)}
 * for more details.
 *
 * @param srcs   The buffers from which bytesProduced are to be retrieved
 * @param offset The offset within the buffer array of the first buffer from
 *               which bytesProduced are to be retrieved; must be non-negative and no
 *               larger than <tt>srcs.length</tt>
 * @param length The maximum number of buffers to be accessed; must be
 *               non-negative and no larger than <tt>srcs.length</tt>
 *                - <tt>offset</tt>
 * @return The number of bytesProduced written, contrary to the behavior specified
 * in {@link ByteChannel}, this method never returns 0, but throws
 * {@link WouldBlockException}
 * @throws IndexOutOfBoundsException If
the preconditions on the <tt>offset</tt> and
 *                         <tt>length</tt> parameters do not hold
 * @throws WouldBlockException      if the channel is in non-blocking mode and the IO operation
 *                         cannot be completed immediately
 * @throws NeedsTaskException       if the channel is not configured to run tasks automatically
 *                         and a task needs to be executed to complete the operation
 * @throws SSLException             if the {@link SSLEngine} throws a SSLException
 * @throws IOException              if the underlying channel throws an IOException
 */
/**
 * Reads a sequence of bytesProduced from this channel into a subsequence of the
 * given buffers.
 *
 * <p>
 * See {@link ScatteringByteChannel#read(ByteBuffer[], int, int)} for more
 * details of the meaning of this signature.
 *
 * <p>
 * This method behaves slightly different
than the interface specification,
 * with respect to non-blocking responses, see {@link #read(ByteBuffer)} for
 * more details.
 *
 * @param dsts   The buffers into which bytesProduced are to be transferred
 * @param offset The offset within the buffer array of the first buffer into
 *               which bytesProduced are to be transferred; must be non-negative and no
```

```
*            larger than <tt>dsts.length</tt>
* @param length The maximum number of buffers to be accessed; must be
*            non-negative and no larger than <tt>dsts.length</tt>
*             - <tt>offset</tt>
* @return The number of bytesProduced read, or <tt>-1</tt> if the channel has
* reached end-of-stream; contrary to the behavior specified in
* {@link ByteChannel}, this method never returns 0, but throws
* {@link WouldBlockException}
* @throws IndexOutOfBoundsException If the preconditions on the <tt>offset</tt> and
*                      <tt>length</tt> parameters do not hold
* @throws WouldBlockException      if the channel is in non-blocking mode and the IO operation
*                      cannot be completed immediately
* @throws NeedsTaskException       if the channel is not configured to run tasks automatically
*                      and a task needs to be executed to complete the operation
* @throws SSLException             if the {@link SSLEngine} throws a SSLException
* @throws IOException             if the underlying channel throws an IOException
*/
```

Found in path(s):
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/publicdomain/zero/1.0/
*/
/**
  * Returns an array containing all of the elements in this deque, in
  * proper sequence (from first to last element).
```

```
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque.  (In other words, this method must allocate
 * a new array).  The caller is thus free to modify the returned array.
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 *
 * @return an array containing all of the elements in this deque
 */
```

Found in path(s):
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 2005 Brian Goetz and Tim Peierls
* Released under the Creative Commons Attribution License
*   (http://creativecommons.org/licenses/by/2.5)
* Official home: http://www.jcip.net
*
* Any republication or derived work distributed in source code form
* must include this copyright and license notice.
*/
```

Found in path(s):
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/annotations/NotThreadSafe.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/annotations/ThreadSafe.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/annotations/Immutable.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
```

* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/ReadConcernHelper.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/TransactionOperation.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/FallbackMongoIterableFactory.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/OperationReadConcernHelper.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/CommitTransactionOperation.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/operation/ServerVersionHelper.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/lang/NonNullApi.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/Java8ChangeStreamIterableImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/TransactionOptions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/Java8MapReduceIterableImpl.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/Java8DistinctIterableImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/package-info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/AbortTransactionOperation.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/lang/package-info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/lang/Nullable.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/MongoIterableFactory.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/Java8FindIterableImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/ClientSessionClock.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/Java8ListIndexesIterableImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/client/internal/Java8AggregateIterableImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/Java8ListCollectionsIterableImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/lang/NonNull.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/Java8ListDatabasesIterableImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MongoIterables.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/ClientSession.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/operation/WriteConcernHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/Java8MongoIterableFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/TransactionBody.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/ClientSessionImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/Java8ForEachHelper.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PojoCodecProvider.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/InstanceCreatorFactory.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/SingleServerCluster.java
*

/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/Encoder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/CryptConnection.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/EmptyBSONCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/MapCodecProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/AsynchronousSocketChannelStream.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/Crypt.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonToken.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerHeartbeatFailedEvent.java

*
/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/SniSslHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/changestream/OperationType.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/selector/ServerAddressSelector.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonUndefinedCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/Java8SniSslHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/PowerOfTwoBufferPool.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/LazyDBList.java

*
/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/operation/Operations.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/UpdateMessage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionAddedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/netty/NettyBufferProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/jsr310/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/ConventionDefaultsImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/PointCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MapReduceCommand.java

*
/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DeleteOneModel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonBinaryCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonBinaryConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/ParallelCollectionScanOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/DistinctOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/FindOneAndUpdateOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBObjects.java

*
/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/Convention.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/io/BsonInputMark.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/diagnostics/logging/SLF4JLogger.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/LegacyExtendedJsonDateTimeConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ServerVersion.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/capi/MongoCryptHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/Code.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/Compressor.java

*
/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/FindOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ProtocolExecutor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerDescriptionChangedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/session/ClientSessionContext.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/io/ByteBufferBsonInput.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/org/bson/json/JsonInt32Converter.java

*

/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/AsyncReadWriteBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ListIndexesOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BasicBSONCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/annotations/BsonId.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/FieldTrackingBsonWriter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionOpenedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/ReplaceOneModel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBRef.java

*

/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/CollectibleCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ClusterListenerAdapter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/BulkWriteResult.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonNullCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ChangeStreamBatchCursorHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/BsonDocumentWrapperHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonDbPointer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionPoolWaitQueueExitedEvent.java

*

/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/validator/CollectibleDocumentFieldNameValidator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/gridfs/GridFSInputFile.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoCommandException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/event/ServerMonitorListenerMulticaster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ConnectionDescription.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/Authenticator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/ClientSessionBinding.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BSONDecoder.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/WriteBinding.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/async/AsyncBatchCursor.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ClusterClock.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ServerAddressHelper.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/diagnostics/SLF4JLogger.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/Tag.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/netty/NettyStream.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonWriterSettings.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/CountOperation.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ParallelCollectionScanOperation.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonDoubleConverter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/Geometry.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/conversions/package-info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/async/package-info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionPoolListenerAdapter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/LegacyMessage.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/changestream/ChangeStreamDocumentCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/StrictCharacterStreamJsonWriterSettings.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/session/ServerSession.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertyReflectionUtils.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonMinKey.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/AuthenticationMechanism.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ServerId.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/IndexMap.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BSONException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/AsyncReadBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/AsyncSingleBatchQueryCursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/AtomicLongCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/BulkWriteError.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBEncoderFactoryAdapter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/event/EventListenerHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/IndexOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/MultiLineString.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionRemovedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/LazyDBEncoder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/CryptBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ShellDecimal128Converter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/OverridableUuidRepresentationUuidCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ChangeListener.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonJavaScriptWithScope.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ListCollectionsOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BSON.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/LineStringCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/NativeAuthenticator.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/DecoderContext.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/binding/AbstractReferenceCounted.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/CursorType.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/ValueCodecProvider.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/CreateCollectionOperation.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/EstimatedDocumentCountOptions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/DeleteRequest.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PojoCodecImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/AggregateResponseBatchCursor.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonStringConverter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBEncoderFactory.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/SslSettings.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ClientEncryptionSettings.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/QueryMessage.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ServerSettings.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BinaryCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/ListIndexesIterableImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/ClientEncryptionImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ClusterEventMulticaster.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/async/AsyncAggregateResponseBatchCursor.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/WriteRequest.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/org/bson/codecs/pojo/TypeWithTypeParameters.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/MongoCollectionImpl.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/BsonArrayCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/BigDecimalCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/diagnostics/logging/package-info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/UuidCodecHelper.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/MessageHeader.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/MongoChangeStreamException.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/ChangeStreamIterableImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/CommandProtocol.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/BsonContextType.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/BasicBSONObject.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/AutoEncryptionSettings.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/UserExistsOperation.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/CreateUserOperation.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/event/ClusterOpeningEvent.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/internal/Crypts.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/model/BulkWriteOptions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/binding/package-info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/event/ServerListenerAdapter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/model/FindOneAndReplaceOptions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/model/BsonField.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/util/ClassMapBasedObjectSerializer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/MapReduceInlineResultsAsyncCursor.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/dns/DefaultDnsResolver.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/KeyManagementService.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonArray.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoWriteException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/SingleConnectionReadBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoSecurityException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DefaultServerMonitorFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/configuration/package-info.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ConnectionId.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/QueryOperators.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ShellInt64Converter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/PolygonCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/UuidRepresentation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonTokenType.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonTypeCodecMap.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/Polygon.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonMaxKeyCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/CoordinateReferenceSystem.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionPoolListener.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BulkWriteHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/Projections.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/Position.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionPoolWaitQueueEnteredEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonDocument.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ClusterableServer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DefaultDBCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/AggregateToCollectionOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/FindIterable.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoClient.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/WriteResult.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerMonitorListener.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/CoordinateReferenceSystemType.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/CommandEventSender.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/LazyDBCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ChangeEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/MapReduceAsyncBatchCursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/UserOperationHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/QueryBuilder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/UnixSocketChannelStream.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ShellDateTimeConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MongoMappingCursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/UpdateManyModel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/util/package-

info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoExecutionTimeoutException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/CompositeByteBuf.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ReflectionDBObject.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/assertions/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/diagnostics/logging/JULLogger.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionListener.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DefaultConnectionPool.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/vault/DataKeyOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/selector/ServerSelector.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DefaultDnsSrvRecordMonitorFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/TaggableReadPreference.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ReadOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/AbstractBsonReader.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/AsyncOperationExecutor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonNull.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/MixedBulkWriteOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ClusterDescriptionChangedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoSocketReadTimeoutException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/StringUtils.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonSymbolCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBCallbackFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ServerCursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/ValidationOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoSocketException.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBObjectCodecProvider.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/vault/package-info.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBCollectionObjectFactory.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoCompressor.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/SocketStreamFactory.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBRefCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/util/ObjectSerializer.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DB.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonBinarySubType.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/util/package-info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/CommandMarker.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonWriter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/selector/PrimaryServerSelector.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBRefCodecProvider.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/NamedCoordinateReferenceSystemCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ReadConcern.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/MapReduceBatchCursor.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/WriteProtocol.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BulkWriteError.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/ClassModelBuilder.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/ValidationLevel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/Document.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/UpdateRequest.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/package-info.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/InsertOneModel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/netty/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonInvalidOperationException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoInternalException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/WriteError.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonBinaryWriter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/ReferenceCounted.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/HexUtils.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/MongoClientFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonInt32Codec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/RawBsonValueHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonObjectIdConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/CommandOperationHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/util/JSON.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DecimalFormatHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/management/jmx/JMXMBeanServer.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/SplittablePayload.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/Bytes.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/InsertRequest.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/GridFSUploadStream.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/DefaultClusterFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerOpeningEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/CommandListener.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ProtocolHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/InsertRequest.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/ObjectIdCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/BaseQueryMessage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/Symbol.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerEventMulticaster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ServerMonitorFactory.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ReplaceRequest.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/SocketStream.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoWriteConcernException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ConnectionPool.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/CommandSucceededEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/DeleteOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/FindIterableImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/MongoWriteConcernWithResponseException.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DBCollectionDistinctOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/MapCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/operation/CommandResultCodecProvider.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/MongoCredentialWithCache.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/MapReduceInlineResultsCursor.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/MongoClientURI.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/WriteOperation.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/DBObjectCollationHelper.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/ParallelScanOptions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/MongoCursor.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/pojo/TypeData.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/DefaultClusterableServerFactory.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/vault/ClientEncryption.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/ServerAddress.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/management/MBeanServerFactory.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/result/UpdateResult.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/model/BucketGranularity.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/util/Util.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/internal/UuidHelper.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/json/ShellMaxKeyConverter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/operation/IndexHelper.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/MongoNamespace.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/model/geojson/codecs/GeometryEncoderHelper.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/connection/ClusterId.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/OverridableUuidRepresentationCodecRegistry.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BSONTimestampCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ClusterListener.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/CollationMaxVariable.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoCursorNotFoundException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/package-info.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/InternalConnectionFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/BaseWriteOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoConfigurationException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ClusterClockAdvancingSessionContext.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/ClassModel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/CommandResultCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/MapReduceIterable.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/GeoJsonObjectType.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BulkWriteResult.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/MultiPoint.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/SimpleMongoClients.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ResponseCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/validator/MappedFieldNameValidator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/NamedCoordinateReferenceSystem.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/IterableCodecProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/TextSearchOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/org/bson/json/JsonMode.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoGridFSException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonNumber.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonUndefinedConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/PatternCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/UpdateProtocol.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DBCreateViewOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/MapReduceAction.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonBinaryWriterSettings.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/InsertProtocol.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/SplittablePayloadBsonWriter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/CommandEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/DocumentCodecProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/MongoIterable.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonInt64.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MapReduceIterableImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/CompressedHeader.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ClusterDescription.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonDocumentReader.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/UuidCodecProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/Facet.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/connection/ServerDescription.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertyAccessor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DnsMultiServerCluster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/selector/ReadPreferenceServerSelector.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionCheckedOutEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/AbstractReferenceCounted.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonDateTimeConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/AsyncSingleServerBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonReader.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/BufferProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DeleteProtocol.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/Decoder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/CurrentOpOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ClusterType.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/ByteBuf.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBDecoderFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/BuildersHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/CreatorExecutable.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/InstanceCreatorImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/GetMoreMessage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonTypeClassMap.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/DistinctIterableImpl.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoCursorAdapter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/client/model/MergeOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/BulkWriteBatch.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/DropCollectionOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/FindAndReplaceOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ListDatabasesOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/DistinctIterable.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/LineString.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerHeartbeatStartedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/model/GridFSDownloadOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ChangeStreamBatchCursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/AtomicIntegerCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ShellUndefinedConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/SymbolCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/SnappyCompressor.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/OperationExecutor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/MultiPointCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/NoOpSessionContext.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonInt32.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/DiscriminatorLookup.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/LazyDBDecoder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonDateTime.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/changestream/ChangeStreamDocument.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/CreateIndexOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/changestream/OperationTypeCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/AggregateIterable.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/RenameCollectionOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonValueCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/OperationHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/SendMessageCallback.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/KillCursorProtocol.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonDoubleConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/Binary.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/GeometryCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/UpdateRequest.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/changestream/package-info.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonMaxKeyConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/CompressedMessage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/ReadBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBObjectFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertyMetadata.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/RemoveRequest.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/CommandResult.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/AsyncClusterBinding.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/Accumulators.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonMinKeyConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ClusterableServerFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BSONCallbackAdapter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/MapReduceHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ClusterSettings.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/Cursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/Field.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/InsertOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DropIndexOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/ByteCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/InternalStreamConnectionInitializer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DeleteOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionPoolClosedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/StreamFactoryFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/session/ClientSession.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/IterableCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/authentication/NativeAuthenticationHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/diagnostics/logging/Loggers.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/WriteConcernError.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/CommandProtocolImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/vault/ClientEncryptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java

*

/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/BatchCursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/BucketOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/configuration/CodecConfigurationException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/util/JSONCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/Decimal128.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonTimestamp.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/LevelCountingBsonWriter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/WriteConcernException.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoInterruptedException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/operation/AsyncOperations.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/Pool.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BulkWriteException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/BasicBSONList.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/BaseFindAndModifyOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/InsertMessage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/CharacterCodec.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/diagnostics/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/Decimal128Codec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/async/SingleResultCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/QueryHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/UnixServerAddress.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonScanner.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/util/Function.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DeleteManyModel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/ListCollectionsIterable.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/MultiPolygon.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/NoOpCommandEventSender.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonTimestampConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/gridfs/GridFSFile.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MongoClientDelegate.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/util/JSONSerializers.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/event/ConnectionPoolListenerMulticaster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoNodeIsRecoveringException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ClusterFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/InternalStreamConnection.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBCursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/gridfs/GridFS.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/LazyPojoCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/FloatCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/codecs/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/RawBsonArray.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ReplicaSetStatus.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/ListCollectionsIterableImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonDoubleCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonType.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/selector/WritableServerSelector.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/WriteConcernError.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertyCodecRegistry.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/Stream.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonJavaScriptConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/IndexOptionDefaults.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/dns/DnsResolver.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonStringCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/DropUserOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonRegularExpressionCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/management/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/BsonWriterHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/ByteArrayCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/SimpleExpression.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ReadPreference.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonWriter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/AggregateIterableImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BulkWriteRequestBuilder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BSONEncoder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/validator/UpdateFieldNameValidator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BSONObject.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/GroupOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/org/bson/json/ExtendedJsonDecimal128Converter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/FieldNameValidator.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/pojo/annotations/BsonIgnore.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/connection/ServerConnectionState.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/Function.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/connection/AsyncCompletionHandler.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/model/Variable.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/json/LegacyExtendedJsonBinaryConverter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/DBEncoderAdapter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/QueryBatchCursor.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/model/geojson/codecs/GeometryDecoderHelper.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/event/CommandStartedEvent.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/CodeCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/model/CountOptions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/CommandResultBaseCallback.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/connection/netty/NettyStreamFactory.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/AtomicBooleanCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/connection/QueryResult.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/io/package-
info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/binding/AsyncConnectionSource.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/ListIndexesIterable.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/selector/LatencyMinimizingServerSelector.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/BsonBoolean.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/session/ServerSessionPool.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DefaultDBEncoder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DefaultDBDecoder.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/management/NullMBeanServer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/CodeWScope.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/operation/SyncOperations.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/RequestMessage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/AsyncWritableByteChannel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ServerMonitor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoSocketReadException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBDecoder.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DefaultConnectionFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/event/CommandListenerMulticaster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/AcknowledgedBulkWriteResult.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/netty/NettyStreamFactoryFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/model/GridFSUploadOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/Time.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/CommandWriteOperation.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/MultiPolygonCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/CommandMessage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/AggregationOutput.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/org/bson/codecs/pojo/PropertyAccessorImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MongoBatchCursorAdapter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionCheckedInEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BasicDBObject.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonJavaScriptCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DuplicateKeyException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/OperationExecutor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonDocumentWriter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/CreateViewOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/Server.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/result/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/ReplaceOptions.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/WriteConcern.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/management/MBeanServer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/ObjectId.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/StrictCharacterStreamJsonWriter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonDouble.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ZlibCompressor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/io/OutputBuffer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/UuidCodec.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/changestream/UpdateDescription.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/IndexRequest.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/GridFSFindIterable.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoIncompatibleDriverException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/FindOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodecProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/UpdateOperation.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/AsyncWriteOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/MessageSettings.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/Aggregates.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/PushOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/ConnectionSource.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/StringCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/gridfs/CLI.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonString.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/EncoderContext.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/util/ComputingMap.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/NumberCodecHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonTimestampCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ShellTimestampConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerClosedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/CommandEventMulticaster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/AsynchronousChannelStream.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DBCollectionRemoveOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/changestream/FullDocument.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/internal/connection/DeleteMessage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonObjectId.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/conversions/Bson.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/ConventionAnnotationImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonMinKeyCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DocumentToDBRefTransformer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/MaxKey.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BulkWriteOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/LazyBSONCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoSocketClosedException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BulkUpdateRequestBuilder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/DoubleCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonDecimal128.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/CommandReadOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/SocketStreamHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/DateTimeFormatter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/PlainAuthenticator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonDocumentWrapperCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/MongoCollection.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/CommandHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/Indexes.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/TlsChannelStreamFactoryFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/util/AbstractObjectSerializer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonDBPointerCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/UsageTrackingInternalConnection.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/ProvidersCodecRegistry.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/AsyncWriteBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/Codec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/CollationStrength.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ServerType.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DBCollectionFindAndModifyOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ChangeStreamOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/MinKeyCodec.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DefaultServerMonitor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonSerializationException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/async/ErrorHandlingResultCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/X509Authenticator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/MongoDatabase.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/ExplainHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/util/JSONParseException.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ConnectionString.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/BasicDBObjectFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/configuration/CodecProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/DateCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionPoolOpenedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonSymbolConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ReplyMessage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/model/package-info.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonMaxKey.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/OrderBy.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/Sorts.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonJavaScript.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/TypeParameterMap.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PojoCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/SslHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/annotations/package-info.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/DropIndexOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/AggregateExplainOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MongoDatabaseImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertyModelBuilder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoServerException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/UpdateOneModel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/FindAndDeleteOperation.java

*

/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ByteBufferBsonOutput.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoNotPrimaryException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/AsyncReadOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonRegularExpressionConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/CodeWithScopeCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/GeometryCollectionCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/event/ServerListenerMulticaster.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/MultiLineStringCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/BaseCluster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/AggregationOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/LazyBSONObject.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/CollationCaseFirst.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonDateTimeCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonJavaScriptWithScopeCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/CycleDetectingCodecRegistry.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/Collation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/MapReduceToCollectionOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/io/BsonInput.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonInt64Codec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/FindAndModifyHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/Connection.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/vault/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/BsonWriterDecorator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/BsonArrayWrapper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/ListDatabasesIterable.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBObject.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/CompoundDBObjectCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/BulkWriteBatchCombiner.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerMonitorEventMulticaster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/Cluster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/Filters.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ClusterConnectionMode.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/MongoChangeStreamCursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/GridFSBuckets.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DBCollectionFindOptions.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/MapReduceStatistics.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/LazyBSONDecoder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/AbstractByteBufBsonDocument.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactoryFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BasicDBObjectBuilder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/CodecRegistryHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/ReturnDocument.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/client/model/BucketAutoOptions.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/CommandResultArrayCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/configuration/CodecRegistry.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/UpdateUserOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/gridfs/model/GridFSFile.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/MongoClientSettings.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/BsonValueCodecProvider.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/pojo/PropertyCodecProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/types/MinKey.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/client/model/CountStrategy.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/io/BasicOutputBuffer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/codecs/pojo/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/DnsSrvRecordInitializer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/internal/connection/ElementExtendingBsonWriter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/util/ClassMap.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/assertions/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/BsonUndefined.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/CursorHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/client/MongoClient.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/CommandResultDocumentCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/com/mongodb/operation/AggregateOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-
jar/org/bson/json/ExtendedJsonInt32Converter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/NoOpFieldNameValidator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MongoClientImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/CodecCache.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/GetMoreProtocol.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ReadConcernLevel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/InternalConnectionInitializer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MongoIterableImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonRegularExpression.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/WriteConcernResult.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/annotations/BsonProperty.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/StreamFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoBulkWriteException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoSocketOpenException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBEncoder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DefaultServerConnection.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/binding/ClusterAwareReadWriteBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/FsyncUnlockOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DnsSrvRecordMonitor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/QueryProtocol.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ClusterClosedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/MultiServerCluster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/TagSet.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/internal/connection/ScramShaAuthenticator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/thread/DaemonThreadFactory.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBAddress.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/UnwindOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonStreamBuffer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/Block.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/management/ConnectionPoolStatisticsMBean.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ShellObjectIdConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/diagnostics/JULLogger.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/SaslAuthenticator.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/GridFSBucket.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonBinary.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/RawBsonDocument.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/GraphLookupOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DefaultServer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/OverridableUuidRepresentationCodec.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/ByteBufNIO.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/event/ClusterListenerMulticaster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/Base64.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/changestream/ChangeStreamLevel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/GroupCommand.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BSONCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/CollationAlternate.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/MaxKeyCodec.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/CreateCollectionOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MappingIterable.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertyModelSerializationImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionClosedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/StrictJsonWriter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/selector/CompositeServerSelector.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/model/GridFSDownloadByNameOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/io/BsonOutput.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/binding/AsyncClusterAwareReadWriteBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ResponseBuffers.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonValue.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/LazyBSONList.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/management/ConnectionPoolStatistics.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/LongCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/util/ClassAncestry.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/session/SessionContext.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/diagnostics/Loggers.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/RenameCollectionOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/Optional.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/ConnectionPoolSettings.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/diagnostics/Logger.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertySerialization.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/UpdateOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/LazyDBObject.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/AsyncSingleConnectionReadBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ClientMetadataHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/RawBsonDocumentCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonStringBuffer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/SimpleMongoClient.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonDocumentWrapper.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/AsyncChangeStreamBatchCursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/InsertManyOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonElement.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/client/model/CountOptionsHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/session/BaseClientSessionImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ErrorCategory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ByteBufBsonDocument.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/CommandListenerMulticaster.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/management/JMXConnectionPoolListener.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/ObjectIdGenerator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/annotations/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonReader.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/client/model/InsertOneOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoClientOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/GSSAPIAuthenticator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/session/package-info.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/KillCursorsMessage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PropertyModel.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/AbstractMultiServerCluster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/configuration/CodecRegistries.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/GeometryCollection.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/LazyMissingCodec.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoDriverInformation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/selector/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerMonitorListenerAdapter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/validator/NoOpFieldNameValidator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/CreateViewOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoQueryException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/FutureAsyncCompletionHandler.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/ReadWriteBinding.java

*

 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/GeoJsonCodecProvider.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoWaitQueueFullException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/BulkWriteUpsert.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBCollection.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/LoggingCommandEventSender.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonSymbol.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonMaximumSizeExceededException.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerHeartbeatSucceededEvent.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/codecs/AbstractGeometryCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/Converter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/ConventionSetPrivateFieldImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/InsertOptions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/IntegerCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MapReduceOutput.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BasicDBList.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/DocumentHelper.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/package-info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/gridfs/GridFSBucketImpl.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/netty/NettyByteBuf.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DnsSrvRecordMonitorFactory.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/result/DeleteResult.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ShellRegularExpressionConverter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/IdGenerator.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ShellBinaryConverter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/jndi/package-info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonReaderMark.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/io/Bits.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/InstanceCreator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DBCollectionUpdateOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/Mongo.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/Point.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/bulk/WriteRequest.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ReplyHeader.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ConcurrentPool.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/ChildCodecRegistry.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/gridfs/package-info.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/PojoBuilderHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/FindAndUpdateOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionMessageReceivedEvent.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonWriterSettings.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/InternalConnection.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/DBCollectionCountOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ServerListener.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/MongoChangeStreamCursorImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonBuffer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonBooleanCodec.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ClientSessionOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/UnacknowledgedBulkWriteResult.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BsonBinaryReader.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/DBObjectCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/MongoClients.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ExponentiallyWeightedMovingAverage.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/DropDatabaseOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/ChangeStreamIterable.java

*
/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DescriptionHelper.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ExtendedJsonInt64Converter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoClientException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ZstdCompressor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BooleanCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BasicBSONEncoder.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoTimeoutException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoCredential.java

*
/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonBooleanConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonDocumentCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/ClusterBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/KeyRetriever.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonDecimal128Codec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DefaultDnsSrvRecordMonitor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/annotations/BsonCreator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/diagnostics/logging/Logger.java

*
/opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/ConnectionFactory.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/StringRangeSet.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/geojson/PolygonCoordinates.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonParseException.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/jndi/MongoClientFactory.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/WriteModel.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/MapReduceWithInlineResultsOperation.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/InternalStreamConnectionFactory.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/DocumentCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/BSONTimestamp.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/SocketSettings.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/ShortCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/package-info.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/BulkWriteUpsert.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoURI.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/AbstractBsonWriter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/Conventions.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/internal/LazyCodec.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/ShellMinKeyConverter.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/CollectionInfoRetriever.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/ExplainVerbosity.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/connection/AsyncConnection.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java
*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/IndexModel.java
* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-

jar/com/mongodb/operation/AggregateOperationImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/InstanceCreatorFactoryImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/ValidationAction.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/gridfs/GridFSDBFile.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/AsyncQueryBatchCursor.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/pojo/AutomaticPojoCodec.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/OpCode.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/jsr310/DateTimeBasedCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/operation/CreateIndexesOperation.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/types/CodeWithScope.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/codecs/BsonObjectIdCodec.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/FindOneAndDeleteOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/Transformer.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/BasicBSONDecoder.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/vault/EncryptOptions.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/client/model/Updates.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionPoolEventMulticaster.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBCallback.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/MongoSocketWriteException.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/DefaultAuthenticator.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/ConnectionMessagesSentEvent.java

*
 /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/binding/SingleServerBinding.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/event/CommandFailedEvent.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/JsonNullConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/internal/connection/LegacyProtocol.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java

* /opt/cola/permits/1195437062_1631558702.46/0/mongo-java-driver-3-12-10-sources-jar/com/mongodb/DBDecoderAdapter.java

1.71 xstream 1.4.18

1.71.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, 2011 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 17. August 2009 by Joerg Schaible

*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/AbstractWriter.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004 Joe Walnes.

* Copyright (C) 2006, 2007, 2018 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 29. May 2004 by Joe Walnes

*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. May 2006 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/XStream11XmlFriendlyMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 30. March 2007 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/TypedNull.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2012, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 08. March 2004 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XppDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 21. February 2017 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/HijrahDateConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 11. August 2011 by Joerg Schaible.
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2014, 2016, 2017, 2018, 2021 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 13. April 2006 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/XStreamer.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. September 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/ConversionException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 01. October 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/ColorConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3Dom.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2012, 2014, 2016, 2017, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 01. October 2004 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/SqlTimestampConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2010 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 13. October 2008 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/FastField.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2007, 2009, 2010, 2011, 2012, 2013, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*

* Created on 30. March 2007 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/DependencyInjectionFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 17.05.2007 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/NativeFieldKeySorter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/MarshallingContext.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.

*
* Created on 14. October 2011 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2018, 2020 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. April 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/enums/EnumSetConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 24. July 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 09. May 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/JVM.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 XStream Committers.
* All rights reserved.
*
* Created on 17. January 2015 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/Types.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2015, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. January 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/Mapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011, 2018 XStream Committers.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/StaxReader.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java
No license file was found, but licenses were detected in source scan.

* Created on 26. September 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/XStream.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, 2008, 2013, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. November 2007 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/AnnotationConfiguration.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 01. December 2006 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/XStreamImplicit.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2010 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.

*
* Created on 09. May 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/ObjectIdDictionary.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2010 XStream Committers.
* All rights reserved.
*
* Created on 12.10.2010 by Joerg Schaible, extracted from TreeSetConverter.
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/PresortedSet.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 20. November 2008 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/persistence/FilePersistenceStrategy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2015 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 09. April 2005 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/mapper/ClassAliasingMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 15. February 2017 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/time/InstantConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 19. July 2011 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/core/Caching.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. September 2003 by Joe Walnes

*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/ByteConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2010, 2011, 2013, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 01. October 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/collections/CollectionConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011, 2012, 2013, 2014, 2015, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 16. February 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/ImplicitCollectionMapper.java
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream

Implementation-Title: XStream Core

Implementation-Version: 1.4.18

Implementation-Vendor-Id: com.thoughtworks.xstream

Implementation-Vendor: XStream

Bundle-License: BSD-3-Clause

Bundle-ManifestVersion: 2

Bundle-Name: XStream Core Sources

Bundle-SymbolicName: xstream.sources

Bundle-Vendor: XStream Sources

Bundle-Version: 1.4.18 Sources

Eclipse-SourceBundle: xstream;version=1.4.18

Specification-Version: 1.4

X-Build-Os: Linux

X-Build-Time: 2021-08-22T11:58:11Z

X-Builder: Maven 3.8.1

X-Compile-Source: 1.4

X-Compile-Target: 1.4

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, 2011 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 02. May 2009 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/xml/xppdom/XppDom.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004 Joe Walnes.

* Copyright (C) 2006, 2007, 2018 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 07. March 2004 by Joe Walnes

*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/collections/BitSetConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. May 2006 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/AbstractXmlFriendlyMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2010 XStream Committers.
* All rights reserved.
*
* Created on 12.10.2010 by Joerg Schaible, extracted from TreeMapConverter.
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/PresortedMap.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 16. August 2009 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/AbstractReader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011, 2013, 2014, 2015 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 29. September 2004 by James Strachan
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/xml/StaxDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 01. January 2008 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/ConverterRegistry.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2008, 2009, 2010, 2011, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 17.04.2008 by Joerg Schaible.
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/json/JettisonStaxWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 10. April 2007 by Guilherme Silveira
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2007, 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. July 2006 by Guilherme Silveira
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/persistence/XmlArrayList.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.
*
* Created on 03. December 2013 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory15.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/NamedArrayConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2011, 2013, 2014 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/Sun14ReflectionProvider.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. April 2006 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/CharsetConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2009, 2010, 2013, 2018 XStream Committers.
* All rights reserved.

*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 12. February 2008 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/enums/EnumSingleValueConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2008, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 02. March 2006 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/AnnotationReflectionConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/AnnotationProvider.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 24. July 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/GregorianCalendarConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 11. August 2005 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/XStreamAlias.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 15. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/TreeMarshaller.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 16. September 2005 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/annotations/XStreamConverters.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 01. October 2004 by James Strachan
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/QNameMap.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2011, 2014 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 20. February 2006 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/SingleValueConverterWrapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 16. August 2004 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/DataHolder.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 29. September 2003 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/basic/StringBufferConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 09. October 2008 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/core/util/HierarchicalStreams.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 01. March 2013 by Joerg Schaible, moved from package
* com.thoughtworks.xstream.converters.reflection.

*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, 2008, 2011, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 21.09.2007 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/DurationConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. February 2017 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
*
 /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2011, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/HierarchicalStreamReader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2015 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 20. March 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/EnumMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, 2008, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 19.09.2007 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/reflection/XStream12FieldKeySorter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2013, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. April 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/core/util/Fields.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 25. September 2013 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/extended/UseAttributeForEnumMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 16. September 2005 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/XStreamConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2008, 2011, 2015, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 15. March 2007 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/AbstractReferenceUnmarshaller.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/HierarchicalStreamWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2013, 2020 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*

* Created on 23. February 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/collections/PropertiesConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2010, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 29. September 2004 by James Strachan
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/StaxWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2011, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. September 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/StringConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2014 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 24. April 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/AttributeNameIterator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 12. April 2006 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XomDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 15. February 2006 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/ConverterMatcher.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 22. June 2006 by Mauro Talevi

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2006 Joe Walnes.

* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 04. June 2006 by Mauro Talevi

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/AbstractXmlWriter.java

No license file was found, but licenses were detected in source scan.

* Copyright (C) 2004 Joe Walnes.

* Copyright (C) 2006, 2007 XStream committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 10. April 2004 by Joe Walnes

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/path/package.html

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2003, 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2013, 2016, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. September 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/collections/AbstractCollectionConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2015, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. January 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/MapperWrapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 23. August 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/CustomObjectOutputStream.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 11. August 2005 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/Annotations.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 11. August 2011 by Joerg Schaible, code from XppDom.
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/xppdom/XppFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2013, 2015, 2016, 2020 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. January 2005 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/DefaultMapper.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2006 Joe Walnes.

* Copyright (C) 2007, 2008, 2009 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 13. June 2006 by Guilherme Silveira

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/persistence/StreamStrategy.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2013, 2015 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 24. June 2012 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2007, 2008 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 20.09.2007 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/PropertyEditorCapableConverter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2006, 2007 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 24. December 2006 by Guilherme Silveira

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/XStreamAsAttribute.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004, 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2010, 2011, 2013, 2014, 2016, 2018, 2020 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 08. May 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/collections/TreeSetConverter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004, 2006 Joe Walnes.

* Copyright (C) 2006, 2007, 2013 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/ReflectionProvider.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 15. August 2009 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 04. June 2006 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/binary/Token.java

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2006 Joe Walnes.
 * Copyright (C) 2006, 2007, 2008, 2009, 2011, 2013, 2019, 2020, 2021 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 15. August 2009 by Joerg Schaible, copied from XmlFriendlyReplacer.
 */

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyNameCoder.java
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2009, 2013, 2018 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 17. April 2009 by Joerg Schaible
 */

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/JavaFieldConverter.java
No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2007, 2013, 2016, 2020 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 01. February 2007 by Joerg Schaible
 */

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/converters/reflection/AbstractAttributedCharacterIteratorAttributeConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2015 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 31. January 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/OuterClassMapper.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. May 2009 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*

* Created on 03. April 2006 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/SelfStreamingInstanceChecker.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2015 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 21.06.2015 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/ActivationDataFlavorConverter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004 Joe Walnes.

* Copyright (C) 2006, 2007, 2013 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 14. August 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/TraxSource.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2009 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.
*
* Created on 16. September 2005 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/XStreamImplicitCollection.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. September 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/CharConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2011, 2013, 2014, 2015, 2016, 2017, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. October 2005 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/ISO8601GregorianCalendarConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. February 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/PrioritizedList.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2010, 2011, 2013, 2016, 2018, 2020 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 08. May 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/collections/TreeMapConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. May 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2008, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26.09.2007 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/AbstractTreeMarshallingStrategy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. September 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/JDomReader.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XomWriter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/JDomWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2015, 2021 XStream Committers.
* All rights reserved.

*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. January 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/ImmutableTypesMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018 XStream Committers.
* All rights reserved.
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
* Created on 10. October 2018 by Joerg Schaible.
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 04. June 2006 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/copy/HierarchicalStreamCopier.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004, 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2010, 2011, 2012, 2013, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. September 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/collections/MapConverter.java
No license file was found, but licenses were detected in source scan.

Copyright (C) 2004 Joe Walnes.
Copyright (C) 2006, 2007 XStream committers.
All rights reserved.

The software in this package is published under the terms of the BSD
style license a copy of which has been included with this distribution in
the LICENSE.txt file.

Created on 10. May 2004 by Joe Walnes

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/package.html
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, 2011, 2014, 2015, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 29. April 2009 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/BEAStaxDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, 2011, 2015 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 29. April 2009 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/io/xml/AbstractXppDriver.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004 Joe Walnes.

* Copyright (C) 2006, 2007, 2010, 2017, 2018 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 03. March 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/converters/extended/EncodedByteArrayConverter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2009 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 22. January 2005 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/mapper/DefaultImplementationsMapper.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/QuickWriter.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011, 2015 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. September 2004 by Joe Walnes
*/
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/JDomDriver.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2007, 2008, 2009, 2011, 2012, 2013, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. November 2007 by Joerg Schaible
*/
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/AnnotationMapper.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 12. April 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/javabean/BeanProperty.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 24. Julyl 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/LocaleConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 20. November 2008 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2014, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 30. May 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 08. April 2006 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/CGLIBMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. April 2004 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/path/PathTrackingReader.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. June 2013 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/core/ClassLoaderReference.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 11. October 2011 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/collections/SingletonMapConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.

*

* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/path/PathTrackingWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 XStream Committers.
* All rights reserved.
*
* Created on 15. January 2015 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/LambdaMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2013, 2014 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. January 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/CachingMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. April 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshallingStrategy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2006 Joe Walnes.
* Copyright (C) 2007, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 16. March 2004 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/MarshallingStrategy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 10. April 2005 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/WriterWrapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, 2010, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.

*
* Created on 29. August 2009 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/Cloneables.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 XStream Committers.
* All rights reserved.
*
* Created on 19. January 2014 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/security/ProxyTypePermission.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/security/CGLIBProxyTypePermission.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/Dom4JXmlWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2013, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.

```
*
* Created on 04. April 2004 by Joe Walnes
*/
```

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/JavaMethodConverter.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2011, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 01. October 2011 by Joerg Schaible
*/
```

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2017, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 19. February 2017 by Joerg Schaible
*/
```

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/ChronologyConverter.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
```

* the LICENSE.txt file.

*

* Created on 14. September 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/core/BaseException.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004, 2005, 2006 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2013, 2016, 2017, 2019 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 07. March 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/core/DefaultConverterLookup.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004, 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2010, 2011, 2014, 2015 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 23. August 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/converters/reflection/SerializationMethodInvoker.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2007, 2008, 2016 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 20. September 2007 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/core/util/ThreadSafePropertyEditor.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2006 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2009, 2010, 2013, 2018 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 20. February 2006 by Mauro Talevi

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/mapper/AttributeMapper.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, 2011 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 15. August 2009 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/io/AbstractDriver.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004, 2005, 2006 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2018 XStream Committers.

* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014, 2017 XStream Committers.
* All rights reserved.
*
* Created on 09. January 2014 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/security/PrimitiveTypePermission.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 15. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/TreeUnmarshaller.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2011 XStream Committers.
* All rights reserved.
*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 22. June 2006 by Mauro Talevi

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamDriver.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004, 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2010, 2013, 2018, 2020 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 25. March 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/DynamicProxyConverter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004 Joe Walnes.

* Copyright (C) 2006, 2007, 2017, 2018 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 06. August 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/Base64Encoder.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2009, 2013, 2020 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. April 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/enums/EnumMapConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2017, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. November 2004 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/ISO8601DateConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 04. June 2006 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/binary/ReaderDepthState.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/io/binary/BinaryStreamWriter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. June 2006 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamWriter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 12. August 2017 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/StringCodec.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.

*
* Created on 24. April 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/AbstractDocumentReader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013, 2016, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 20. September 2013 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/NamedMapConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. April 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshaller.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. April 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/ReferenceByXPathUnmarshaller.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2010, 2011, 2012, 2013, 2014, 2015, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 21. December 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/SerializableConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2010, 2011, 2014, 2015, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 12. February 2015 by Joerg Schaible, copied from
c.t.x.converters.reflection.SerializationMemberInvoker.
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/SerializationMembers.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, 2011 XStream Committers.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/xml/Xpp3Driver.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/xml/KXml2Driver.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/xml/StandardStaxDriver.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/extended/package.html
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/collections/package.html

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2006, 2007, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 11. October 2006 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/Primitives.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016, 2017, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 7. February 2016 by Aaron Johnson
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/PathConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/converters/collections/CharArrayConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. October 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/collections/ArrayConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011, 2012 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. May 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/ThreadSafeSimpleDateFormat.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/xml/XppDomReader.java

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/path/PathTracker.java

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/xml/DomReader.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2006 Joe Walnes.
 * Copyright (C) 2006, 2007, 2011, 2013 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 04. June 2006 by Joe Walnes
 */
```

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/binary/BinaryStreamReader.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2013 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 24. June 2012 by Joerg Schaible
 */
```

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java

No license file was found, but licenses were detected in source scan.

```
/*
```

* Copyright (C) 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 28. May 2005 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/AbstractXmlDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2013, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 18. March 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/enums/EnumConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/UnmarshallingContext.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 15. March 2006 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/StatefulWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2013, 2014, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 09. April 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/FieldAliasingMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 13. October 2011 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamReader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 XStream Committers.
* All rights reserved.
*
* Created on 09. January 2014 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/security/NoPermission.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/security/WildcardTypePermission.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/security/NullPermission.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 13. February 2017 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/time/DurationConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/AttributeAliasingMapper.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/ErrorWritingException.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/NamedCollectionConverter.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2004 Joe Walnes.
 * Copyright (C) 2006, 2007, 2008, 2009 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 08. May 2004 by Joe Walnes
 */
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/ErrorWriter.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2005 Joe Walnes.
 * Copyright (C) 2006, 2007, 2008, 2010, 2011, 2013, 2016, 2020 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 12. April 2005 by Joe Walnes
 */
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/javabean/BeanProvider.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2004 Joe Walnes.
 * Copyright (C) 2006, 2007, 2016 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 07. March 2004 by Joe Walnes
 */
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/converters/reflection/ObjectAccessException.java

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004, 2005, 2006 Joe Walnes.
 * Copyright (C) 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2018 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 02. March 2006 by Joerg Schaible
 */

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/AbstractReflectionConverter.java

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2006, 2007, 2008, 2010, 2011, 2013, 2014, 2015, 2016, 2018 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 13. April 2006 by Joerg Schaible
 */

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2004 Joe Walnes.
 * Copyright (C) 2006, 2007, 2018 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 25. March 2004 by Joe Walnes
 */

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/URLConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2011, 2013, 2014, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 08. January 2014 by Joerg Schaible, renamed from Sun14ReflectionProvider
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/SunUnsafeReflectionProvider.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/StreamException.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2013, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*

* Created on 08. July 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/FontConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2018 XStream Committers.
* All rights reserved.
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
* Created on 14. May 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/FieldDictionary.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2014, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. September 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/BooleanConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/IntConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 18. October 2007 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004, 2005, 2006 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2013 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 07. March 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/PrettyPrintWriter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004, 2005, 2006 Joe Walnes.

* Copyright (C) 2006, 2007, 2009, 2011, 2014, 2015, 2018 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 07. March 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/Dom4JDriver.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016 XStream Committers.

* All rights reserved.

```
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 12. April 2005 by Joe Walnes
*/
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/javabean/JavaBeanConverter.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2005 by Joe Walnes
*/
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/ClassLoaderReference.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2006, 2007, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 13. April 2006 by Joerg Schaible
*/
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/ReflectionProviderWrapper.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/ExternalizableConverter.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/PureJavaReflectionProvider.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/AbstractPullReader.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 13. January 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/FileConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2021 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 2. January 2021 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/MXParserDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, 2013, 2014 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 12. July 2011 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/core/util/WeakCache.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. January 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/XmlFriendlyMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, 2008, 2010, 2020 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 13. September 2007 by Joerg Schaible.
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/XmlHeaderAwareReader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 15. February 2006 by Mauro Talevi
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/SingleValueConverter.java

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 04. January 2008 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2013, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 31. July 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/extended/RegexPatternConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 16. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 XStream Committers.
* All rights reserved.
*
* Created on 23. January 2014 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/security/TypeHierarchyPermission.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2013 XStream Committers.
* All rights reserved.
*

* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. September 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/ConverterLookup.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. April 2006 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XStream11XmlFriendlyReplacer.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. January 2005 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/ArrayMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, 2011, 2013, 2014, 2015 XStream Committers.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/SjsxpDriver.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/DocumentReader.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/DocumentWriter.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/Pool.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 05. May 2017 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/ISO8601JavaTimeConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 XStream Committers.
* All rights reserved.
*
* Created on 08. January 2014 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/security/TypePermission.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/security/ForbiddenClassException.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/SecurityMapper.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/security/NoTypePermission.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/security/AnyTypePermission.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2013, 2014, 2017 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/reflection/ReflectionConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. May 2005 by Guilherme Silveira
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/annotations/XStreamOmitField.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004 Joe Walnes.
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 04. October 2004 by Joe Walnes
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/core/MapBackedDataHolder.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. November 2007 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/LocalConversionMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 25. March 2006 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/TextAttributeConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 XStream Committers.
* All rights reserved.
*
* Created on 27. January 2014 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/security/InterfaceTypePermission.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 14. August 2004 by Joe Walnes
*/
/**
* A SAX {@link org.xml.sax.XMLReader parser} that acts as an XStream
* {@link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a

* SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ({@link
#parse(java.lang.String)}
* and {@link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property
* {@link #SOURCE_OBJECT_LIST_PROPERTY} to define the list of objects to serialize.
 * </p>
* <p>
* Configuration of this SAX parser is achieved through the standard
* {@link #setProperty SAX property mechanism}. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of {@link org.xml.sax.XMLFilter filters} down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* {@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized} as well as the
* {@link #CONFIGURED_XSTREAM_PROPERTY XStream facade}.
* </p>
*
* @author Laurent Bihanic
*/
/**
   * Sets the value of a property.
   * <p>
   * The property name is any fully-qualified URI. It is
   * possible for an XMLReader to recognize a property name but
   * to be unable to set its value.</p>
   * <p>
   * XMLReaders are not required to recognize setting any
   * specific property names, though a core set is provided with
   * SAX2.</p>

   * <p>
   * Some property values may be immutable or mutable only
   * in specific contexts, such as before, during, or after
   * a parse.</p>
   * <p>
   * This method is also the standard mechanism for setting
   * extended handlers.</p>
   * <p>
   * Note: This implementation only supports two
   * (proprietary) properties: {@link #CONFIGURED_XSTREAM_PROPERTY}
   * and {@link #SOURCE_OBJECT_LIST_PROPERTY}.</p>
   *
   * @param name the property name, which is a fully-qualified URI.
   * @param value the requested value for the property.

```
 * @throws SAXNotRecognizedException when the XMLReader does not
 *                  recognize the property name.
 * @throws SAXNotSupportedException  when the XMLReader recognizes
 *                  the property name but cannot set
 *                  the requested value.
 * @see #getProperty
 */
/**
 * Parses an XML document
from a system identifier (URI).
 * <p>
 * This method is a shortcut for the common case of reading a
 * document from a system identifier.  It is the exact
 * equivalent of the following:</p>
 * <blockquote>
 * <pre>
 *   parse(new InputSource(systemId));
 * </pre>
 * </blockquote>
 * <p>
 * If the system identifier is a URL, it must be fully resolved
 * by the application before it is passed to the parser.</p>
 * <p>
 * <strong>Note</strong>: As a custom SAX parser, this class
 * ignores the <code>systemId</code> argument of this method
 * and relies on the proprietary SAX property
 * {@link #SOURCE_OBJECT_LIST_PROPERTY}) to define the list of
 * objects to serialize.</p>
 *
 * @param systemId the system identifier (URI).
 * @throws SAXException Any SAX exception, possibly wrapping
 *              another exception.
 * @see #parse(org.xml.sax.InputSource)
 */
```

Found in path(s):
*
 /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/SaxWriter.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2013, 2016 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
```

*

* Created on 08. January 2016 by Joerg Schaible, factored out from FieldAliasingMapper.

*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/ElementIgnoringMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2012 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. October 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/NullConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 13. November 2008 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/XStreamInclude.java
No license file was found, but licenses were detected in source scan.

* Copyright (C) 2017 XStream committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.

*

* Created on 12. February 2017 by Joerg Schaible

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/package.html
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 15. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2007, 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 28. June 2006 by Guilherme Silveira
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/persistence/XmlSet.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 XStream Committers.
* All rights reserved.
*

* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 10. November 2008 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/PackageAliasingMapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, 2008, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. September 2007 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. October 2007 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/InitializationException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.

* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 28. November 2008 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/json/JsonWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. July 2011 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/javabean/JavaBeanProvider.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 08. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XppReader.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2007, 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 13. June 2006 by Guilherme Silveira
*/
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/persistence/XmlMap.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2011, 2013, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 16. November 2004 by Joe Walnes
*/
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/CompositeClassLoader.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2007, 2008, 2013, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 08.12.2007 by Joerg Schaible
*/
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/LookAndFeelConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 11. February 2017 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/YearMonthConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/YearConverter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 12. January 2006 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/SubjectConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2003, 2004 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 26. September 2003 by Joe Walnes

*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/DateConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 06. March 2017 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/SystemClockConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, 2009, 2011, 2016 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 10. April 2007 by Guilherme Silveira
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/SortableFieldKeySorter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011, 2014, 2015, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*

* Created on 07. March 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/DomDriver.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011, 2013, 2016, 2018 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 30. July 2011 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/ToAttributedValueConverter.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2003, 2004 Joe Walnes.

* Copyright (C) 2006, 2007, 2013, 2018 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 26. September 2003 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/LongConverter.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2003, 2004 Joe Walnes.

* Copyright (C) 2006, 2007, 2013 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.
*
* Created on 26. September 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/Converter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, 2011, 2014, 2015 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 29. April 2009 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/WstxDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2008, 2009, 2010, 2011, 2019 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 15. March 2007 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/AbstractReferenceMarshaller.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011, 2013 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 04. April 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/JavaClassConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2009 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 02. September 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/FastStack.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/Dom4JReader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013, 2016, 2018 XStream Committers.
* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 14. March 2013 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/converters/enums/EnumToStringConverter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2011 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 10. April 2005 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/io/ReaderWrapper.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004 Joe Walnes.

* Copyright (C) 2006, 2007, 2013, 2018 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 29. May 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/converters/extended/ThrowableConverter.java

No license file was found, but licenses were detected in source scan.

/*

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/mapper/DynamicProxyMapper.java

No license file was found, but licenses were detected in source scan.

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/core/util/ISO8601JodaTimeConverter.java

No license file was found, but licenses were detected in source scan.

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/converters/ErrorReporter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006, 2007, 2016, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. July 2006 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/ToStringConverter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 07. March 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/HierarchicalStreamDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2021 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 02. January 2021 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/io/xml/MXParserDomDriver.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 18. November 2008 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/persistence/AbstractFilePersistenceStrategy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013 XStream Committers.
* All rights reserved.
*
* Created on 12.07.2013 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/annotations/XStreamAliasType.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 17. April 2006 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReplacer.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (c) 2007, 2008, 2009, 2010, 2011, 2013, 2018 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 30. March 2007 by Joerg Schaible
 */
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/json/JettisonMappedXmlDriver.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2015 XStream Committer.
 * All rights reserved.
 *
 * Created on 17. January 2015 by Joerg Schaible
 */
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/LambdaConverter.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2004, 2005, 2006 Joe Walnes.
 * Copyright (C) 2006, 2007, 2008, 2009, 2011 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 07. March 2004 by Joe Walnes
 */
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/CompactWriter.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2005 Joe Walnes.
 * Copyright (C) 2006, 2007, 2008, 2009, 2011, 2016, 2017 XStream Committers.
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/javabean/PropertyDictionary.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/reflection/SunLimitedUnsafeReflectionProvider.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/ArrayIterator.java
No license file was found, but licenses were detected in source scan.

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 23. August 2004 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/CustomObjectInputStream.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, 2011 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 14. August 2009 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/naming/NameCoder.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, 2011 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 06. May 2009 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/ReferencingMarshallingContext.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2004, 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2009, 2013 XStream Committers.

* All rights reserved.

*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 02. September 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/path/Path.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2004, 2005, 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 02. September 2004 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/XomReader.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/DomWriter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2006 Joe Walnes.
* Copyright (C) 2006, 2007, 2008, 2009, 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 04. June 2006 by Mauro Talevi
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/xml/AbstractXmlReader.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2004 Joe Walnes.
 * Copyright (C) 2006, 2007, 2008 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 16. March 2004 by Joe Walnes
 */
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/SequenceGenerator.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2017, 2018 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 8. February 2017 by Joerg Schaible
 */
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/time/ZoneIdConverter.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2007, 2008, 2016 XStream Committers.
 * All rights reserved.
 *
 * The software in this package is published under the terms of the BSD
 * style license a copy of which has been included with this distribution in
 * the LICENSE.txt file.
 *
 * Created on 22. October 2007 by Joerg Schaible
 */
```

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-

jar/com/thoughtworks/xstream/XStreamException.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 09. October 2008 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/mapper/AbstractAttributeAliasingMapper.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 3. August 2010 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/basic/URIConverter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2005 Joe Walnes.
* Copyright (C) 2006, 2007, 2017, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 03. October 2005 by Joerg Schaible
*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/converters/extended/ISO8601SqlTimestampConverter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, 2010, 2011, 2012, 2013 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 20. August 2009 by Joerg Schaible

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2005 Joe Walnes.

* Copyright (C) 2006, 2007, 2013, 2014 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 06. February 2005 by Joe Walnes

*/

Found in path(s):

* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-
jar/com/thoughtworks/xstream/core/util/OrderRetainingMap.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2003 Joe Walnes.

* Copyright (C) 2006, 2007, 2009, 2011 XStream Committers.

* All rights reserved.

*

* The software in this package is published under the terms of the BSD

* style license a copy of which has been included with this distribution in

* the LICENSE.txt file.

*

* Created on 26. September 2003 by Joe Walnes
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/mapper/CannotResolveClassException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 16. July 2011 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/javabean/PropertySorter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/javabean/ComparingPropertySorter.java
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/javabean/NativePropertySorter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017, 2018 XStream Committers.
* All rights reserved.
*
* The software in this package is published under the terms of the BSD
* style license a copy of which has been included with this distribution in
* the LICENSE.txt file.
*
* Created on 22. February 2017 by Joerg Schaible
*/

Found in path(s):
* /opt/cola/permits/1198584707_1630385987.5/0/xstream-1-4-18-sources-jar/com/thoughtworks/xstream/converters/time/JapaneseEraConverter.java

1.72 sshd-sftp 2.7.0

1.72.1 Available under license :

Apache MINA SSHD
Copyright 2018-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

1.73 junit 4.13.2

1.73.1 Available under license :

JUnit

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

   a) in the case of the initial Contributor, the initial code and
      documentation distributed under this Agreement, and
   b) in the case of each subsequent Contributor:

   i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and
 (ii) are
not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free
 patent license under
Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise.

As a condition to
exercising the rights and licenses granted hereunder, each Recipient hereby
assumes sole responsibility to secure any other intellectual property rights
needed, if any. For example, if a third party patent license is required to
allow Recipient to distribute the Program, it is Recipient's responsibility to
acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient
copyright rights in its Contribution, if any, to grant the copyright license
set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and
conditions, express and implied, including warranties or conditions of title
and non-infringement, and implied
warranties or conditions of merchantability
and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for
damages, including direct, indirect, special, incidental and consequential
damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are
offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such
Contributor, and informs licensees how to obtain it in a reasonable manner on
or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the
Program.

Contributors may not remove or alter any copyright notices contained within the
Program.

Each Contributor must identify itself as the originator of its Contribution,

if

any, in a manner that reasonably allows subsequent Recipients to identify the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor who
includes the Program in a commercial product offering should do so in a manner
which does not create potential liability for other Contributors. Therefore, if
a Contributor includes the Program in a commercial product offering, such
Contributor ("Commercial Contributor") hereby agrees to defend and indemnify
every other Contributor ("Indemnified Contributor") against any losses, damages
and costs (collectively "Losses") arising from claims, lawsuits and other legal
actions brought by a third party against the Indemnified Contributor to the
extent caused by the acts or omissions of such Commercial Contributor in
connection
 with its distribution of the Program in a commercial product
offering. The obligations in this section do not apply to any claims or Losses
relating to any actual or alleged intellectual property infringement. In order
to qualify, an Indemnified Contributor must: a) promptly notify the Commercial
Contributor in writing of such claim, and b) allow the Commercial Contributor
to control, and cooperate with the Commercial Contributor in, the defense and
any related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If that
Commercial Contributor then makes performance claims, or offers warranties
related to Product X, those performance claims and warranties are such
Commercial Contributor's responsibility alone. Under this section, the
Commercial Contributor would have to defend claims
 against the other
Contributors related to those performance claims and warranties, and if a court
requires any other Contributor to pay any damages as a result, the Commercial
Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using
and distributing the Program and assumes all risks associated with its exercise
of rights under this Agreement, including but not limited to the risks and
costs of program errors, compliance with applicable laws, damage to or loss of

data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS
 AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST
PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS
GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable
law, it shall not affect the validity or enforceability of the remainder of the
terms of this Agreement, and without further action by the parties hereto, such
provision shall be reformed to the minimum extent necessary to make such
provision valid and enforceable.

If Recipient institutes patent litigation against any
entity (including a cross-claim or counterclaim in a lawsuit) alleging that the
Program
 itself (excluding combinations of the Program with other software or
hardware) infringes such Recipient's patent(s), then such Recipient's rights
granted under Section 2(b) shall terminate as of the date such litigation is
filed.

All Recipient's rights under this Agreement shall terminate if it fails to
comply with any of the material terms or conditions of this Agreement and does
not cure such failure in a reasonable period of time after becoming aware of
such noncompliance. If all Recipient's rights under this Agreement terminate,
Recipient agrees to cease use and distribution of the Program as soon as
reasonably practicable. However, Recipient's obligations under this Agreement
and any licenses granted by Recipient relating to the Program shall continue
and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in
order to avoid inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves
 the right to
publish new versions (including revisions) of this Agreement from time to time.
No one other than the Agreement Steward has the right to modify this Agreement.
The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to
serve as the Agreement Steward to a suitable separate entity. Each new version
of the Agreement will be given a distinguishing version number. The Program
(including Contributions) may always be distributed subject to the version of

the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted
 under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

1.74 jackson 2.13.2

1.74.1 Available under license :

Camel :: Jackson

Copyright 2007-2014 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
   ===
   == NOTICE file corresponding to the section 4 d of   ==
   == the Apache License, Version 2.0,   ==
   == in this case for the Apache Camel distribution.   ==
   ===

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Please read the different LICENSE files present in the licenses directory of
 this distribution.
/**
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

  for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

 5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.75 alpine-keys 2.4-r1

1.75.1 Available under license :

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.76 okhttp 4.9.3

1.76.1 Available under license :

Note that publicsuffixes.gz is compiled from The Public Suffix List:

https://publicsuffix.org/list/public_suffix_list.dat

It is subject to the terms of the Mozilla Public License, v. 2.0:

https://mozilla.org/MPL/2.0/

/*

* Copyright (C) 2012 The Android Open Source Project

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Mozilla Public License

Version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's
Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form
of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"

means

that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"
means
 any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer
 of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive
 license:

under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

for
 any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights
 to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as described in
 Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s),
 so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred
 by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent

prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent,
 then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes
 an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so
 this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-

claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other
 than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in
 Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

1.77 cglib 1.9.5

1.77.1 Available under license :

Mockito license - MIT.

Libraries used:

Cglib - Apache License 2.0
ASM - BSD license

Mockito all distribution:

Objenesis - MIT license
Hamcrest - BSD license
Copyright (c) 2000-2005 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO
 EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR
 IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
Copyright (c) 2003-2008, Objenesis Team and all contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
 OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License,
each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2000-2007, jMock.org

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of
conditions and the following disclaimer. Redistributions in binary form must reproduce
the above copyright notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of jMock nor the names of its contributors may be used to endorse
or promote products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
 LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
BSD License

Copyright (c) 2000-2006, www.hamcrest.org

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of
conditions and the following disclaimer. Redistributions in binary form must reproduce
the above copyright notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse
or promote products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY

EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT

SHALL THE COPYRIGHT OWNER

 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,

INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED

TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR

BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN

CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY

WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.78 core-specs-alpha 0.2.56

1.78.1 Available under license :

Found license 'Eclipse Public License 1.0' in '<name>Eclipse Public License 1.0</name>'

1.79 clojure 1.10.3

1.79.1 Available under license :

Found license 'Eclipse Public License 1.0' in '* Copyright (c) Rich Hickey. All rights reserved. * Eclipse Public License 1.0 (http://opensource.org/licenses/eclipse-1.0.php)'

Found license 'Eclipse Public License 1.0' in '*   Copyright (c) Rich Hickey. All rights reserved. *   Eclipse Public License 1.0 (http://opensource.org/licenses/eclipse-1.0.php)'

Found license 'Eclipse Public License 1.0' in ';   Copyright (c) Rich Hickey. All rights reserved. ;   Eclipse Public License 1.0 (http://opensource.org/licenses/eclipse-1.0.php)'

Found license 'Eclipse Public License 1.0' in '*   Copyright (c) Rich Hickey and Contributors. All rights reserved. * Eclipse Public License 1.0 (http://opensource.org/licenses/eclipse-1.0.php)'

Found license 'Eclipse Public License 1.0' in 'Copyright (c) Rich Hickey and Contributors. All rights reserved. Eclipse Public License 1.0 (http://opensource.org/licenses/eclipse-1.0.php)'

Found license 'Common Public License 1.0 (CPLv1.0)' in ';   Copyright (c) Chris Houser, Dec 2008. All rights reserved. ;   Common Public License 1.0 (http://opensource.org/licenses/cpl.php)'

1.80 hdrhistogram 2.1.12

1.80.1 Available under license :

No license file was found, but licenses were detected in source scan.

/**

* Written by Gil Tene of Azul Systems, and released to the public domain,

* as explained at http://creativecommons.org/publicdomain/zero/1.0/
*/

Found in path(s):
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/WriterReaderPhaser.java
No license file was found, but licenses were detected in source scan.

/**
* Written by Gil Tene of Azul Systems, and released to the public domain,
* as explained at http://creativecommons.org/publicdomain/zero/1.0/
*
* @author Gil Tene
*/

Found in path(s):
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoublePercentileIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ZigZagEncoding.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AllValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Base64Helper.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/IntCountsHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleLinearIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedConcurrentDoubleHistogram.java
*
 /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/packedarray/PackedArraySingleWriterRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Histogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/RecordedValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/LinearIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedDoubleHistogram.java
*

/opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AtomicHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramIterationValue.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Recorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogReader.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
*
 /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleHistogramIterationValue.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PercentileIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/PackedConcurrentHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleAllValuesIterator.java
*
 /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleLogarithmicIterator.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ShortCountsHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/EncodableHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/HistogramLogScanner.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/packedarray/PackedArrayRecorder.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/ConcurrentHistogram.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Written by Gil Tene of Azul Systems, and released to the public domain,
 * as explained at http://creativecommons.org/publicdomain/zero/1.0/
 *
 * @author Gil Tene
 */
```

Found in path(s):
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/AbstractHistogram.java
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/DoubleHistogram.java
No license file was found, but licenses were detected in source scan.

```
/*
 * package-info.java
 * Written by Gil Tene of Azul Systems, and released to the public domain,
 * as explained at http://creativecommons.org/publicdomain/zero/1.0/
 */
```

Found in path(s):
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/package-info.java
No license file was found, but licenses were detected in source scan.

```
/**
 * Written by Gil Tene of Azul Systems, and released to the public domain,
 * as explained at http://creativecommons.org/publicdomain/zero/1.0/
 *
 * @author Gil Tene
 */

package org.HdrHistogram;

final class Version {
  public static final String version="$VERSION$";
  public static final String build_time="$BUILD_TIME$";
}
```

Found in path(s):
* /opt/cola/permits/1257203437_1642787675.09/0/hdrhistogram-2-1-12-sources-jar/org/HdrHistogram/Version.java.template

1.81 xsdlib 2013.6.1

1.81.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2001-2013 Oracle and/or its affiliates. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
*   - Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
*   - Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
*
*   - Neither the name of Oracle nor the names of its
*   contributors may be used to endorse or promote products derived
*   from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
* IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
 BUT NOT LIMITED TO,
* THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
* EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
* PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
* PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
* LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
* NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/LongType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/BuiltinAtomicType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/XSDatatypeImpl.java
*
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/ListType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/xml/util/XmlChars.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Base64BinaryType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GYearMonthType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerDerivedType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MinLengthFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TypeIncubator.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DurationType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TokenType.java
*
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarFormatter.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TimeType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/HexBinaryType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FinalComponent.java
*
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxExclusiveFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnionType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MinExclusiveFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/EnumerationFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarParser.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BooleanType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/MaxInclusiveFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-

jar/com/sun/msv/datatype/xsd/NegativeIntegerType.java

*

/opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/IDateTimeValueType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarFormatter.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/Util.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/NumberType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/WhiteSpaceProcessor.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/MinInclusiveFacet.java

*

/opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DoubleType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/XmlNames.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/ByteType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/WhiteSpaceFacet.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DataTypeWithLexicalConstraintFacet.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DatatypeFactory.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/QnameValueType.java

*

/opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/NcnameType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/StringType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/DatabindableDatatype.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/EntityType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/SimpleURType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/regex/RegExp.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FloatType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NmtokenType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedIntType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DateTimeBaseType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BinaryValueType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Proxy.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/LengthFacet.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/CalendarFormatter.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/TimeZone.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/ErrorDatatypeLibrary.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ListValueType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/FractionDigitsFacet.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ngimpl/DatatypeBuilderImpl.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnicodeUtil.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/XSDatatype.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/LanguageType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/RangeFacet.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarParser.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ErrorType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GMonthType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ngimpl/DataTypeLibraryImpl.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ShortType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-

jar/com/sun/msv/datatype/xsd/GMonthDayType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DateTimeType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/regex/JDKImpl.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/PatternFacet.java

*
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/FloatingNumberType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/SerializationContext.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/AnyURIType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/IntType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/TotalDigitsFacet.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/UnsignedShortType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DataTypeWithFacet.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java

*
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DateType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/Discrete.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/regex/XercesImpl.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/regex/RegExpFactory.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/ConcreteType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/Comparator.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/GYearType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/NameType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DataTypeWithValueConstraintFacet.java

*
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/UnsignedByteType.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/NonNegativeIntegerType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/CalendarParser.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GDayType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntegerType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IDType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/QnameType.java
*
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/BinaryBaseType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IDREFType.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/package.html
No license file was found, but licenses were detected in source scan.

/*
* The Apache Software License, Version 1.1
*
*
* Copyright (c) 1999-2003 The Apache Software Foundation. All rights
* reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in
*   the documentation and/or other materials provided with the
*   distribution.
*
* 3. The end-user documentation included with the redistribution,
*   if any, must include the following acknowledgment:
*   "This product includes software developed by the
*   Apache Software Foundation (http://www.apache.org/)."
*   Alternately,
 this acknowledgment may appear in the software itself,
*   if and wherever such third-party acknowledgments normally appear.
*
* 4. The names "Xerces" and "Apache Software Foundation" must
*   not be used to endorse or promote products derived from this
*   software without prior written permission. For written
*   permission, please contact apache@apache.org.
*
* 5. Products derived from this software may not be called "Apache",
*   nor may "Apache" appear in their name, without prior written
*   permission of the Apache Software Foundation.
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT

OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
* ==
*
* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation and was
* originally based on software copyright (c) 1999, International
* Business Machines, Inc., http://www.apache.org. For more
* information on the Apache Software Foundation, please see
* <http://www.apache.org/>.
*/

Found in path(s):
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/ParserForXMLSchema.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/RegexParser.java
No license file was found, but licenses were detected in source scan.

/*
* The Apache Software License, Version 1.1
*
*
* Copyright (c) 1999-2013 The Apache Software Foundation. All rights
* reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in
*   the documentation and/or other materials provided with the
*   distribution.
*
* 3. The end-user documentation included with the redistribution,
*   if any, must include the following acknowledgment:
*   "This product includes software developed by the
*   Apache Software Foundation (http://www.apache.org/)."
*   Alternately,

this acknowledgment may appear in the software itself,
*   if and wherever such third-party acknowledgments normally appear.
*
* 4. The names "Xerces" and "Apache Software Foundation" must
*   not be used to endorse or promote products derived from this
*   software without prior written permission. For written
*   permission, please contact apache@apache.org.
*
* 5. Products derived from this software may not be called "Apache",
*   nor may "Apache" appear in their name, without prior written
*   permission of the Apache Software Foundation.
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT
 OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
* ==
*
* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation and was
* originally based on software copyright (c) 1999, International
* Business Machines, Inc., http://www.apache.org. For more
* information on the Apache Software Foundation, please see
* <http://www.apache.org/>.
*/

Found in path(s):
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/RangeToken.java
No license file was found, but licenses were detected in source scan.

/*
* DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.
*
* Copyright (c) 2001-2013 Oracle and/or its affiliates. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are
* met:

```
*
* - Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* - Redistribution in binary form must reproduct the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
*
* Neither the name of Sun Microsystems, Inc. or the names of
* contributors may be used to endorse or promote products derived from
* this software without specific prior written permission.
*
* This software is provided "AS IS," without
 a warranty of any kind. ALL
* EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES,
* INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A
* PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE HEREBY EXCLUDED. SUN AND
* ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES OR LIABILITIES
* SUFFERED BY LICENSEE AS A RESULT OF OR RELATING TO USE, MODIFICATION
* OR DISTRIBUTION OF THE SOFTWARE OR ITS DERIVATIVES. IN NO EVENT WILL
* SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA,
* OR FOR DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR
* PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF
* LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE SOFTWARE,
* EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
*/
```

Found in path(s):
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/InternalImpl.java
No license file was found, but licenses were detected in source scan.

Copyright (c) 2001-2013 Oracle and/or its affiliates. All rights reserved.
modification, are permitted provided that the following conditions are
- Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
this software without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/message.properties
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/message_ja.properties
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/message_fr.properties

No license file was found, but licenses were detected in source scan.

/*
* The Apache Software License, Version 1.1
*
*
* Copyright (c) 1999-2002 The Apache Software Foundation. All rights
* reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in
*   the documentation and/or other materials provided with the
*   distribution.
*
* 3. The end-user documentation included with the redistribution,
*   if any, must include the following acknowledgment:
*   "This product includes software developed by the
*   Apache Software Foundation (http://www.apache.org/)."
*   Alternately,
 this acknowledgment may appear in the software itself,
*   if and wherever such third-party acknowledgments normally appear.
*
* 4. The names "Xerces" and "Apache Software Foundation" must
*   not be used to endorse or promote products derived from this
*   software without prior written permission. For written
*   permission, please contact apache@apache.org.
*
* 5. Products derived from this software may not be called "Apache",
*   nor may "Apache" appear in their name, without prior written
*   permission of the Apache Software Foundation.
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
* LIMITED TO, PROCUREMENT
 OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
* USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,

* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
* OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
* ==
*
* This software consists of voluntary contributions made by many
* individuals on behalf of the Apache Software Foundation and was
* originally based on software copyright (c) 1999, International
* Business Machines, Inc., http://www.apache.org. For more
* information on the Apache Software Foundation, please see
* <http://www.apache.org/>.
*/

Found in path(s):
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/BMPattern.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/RegularExpression.java
*
 /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Op.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/REUtil.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Token.java
No license file was found, but licenses were detected in source scan.

Copyright (c) 2001-2013 Oracle and/or its affiliates. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
- Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
- Neither the name of Oracle nor the names of its
from this software without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/Messages.properties
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/Messages_ja.properties

1.82 disruptor 3.4.2

1.82.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 LMAX Ltd.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/EventReleaseAware.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/EventReleaser.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2011 LMAX Ltd.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-

jar/com/lmax/disruptor/BusySpinWaitStrategy.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventFactory.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/WorkerPool.java
*
 /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/SequenceBarrier.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/IgnoreExceptionHandler.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/SingleProducerSequencer.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/EventTranslatorThreeArg.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/WorkProcessor.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/PhasedBackoffWaitStrategy.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/dsl/ConsumerRepository.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/util/Util.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/LiteBlockingWaitStrategy.java
*
 /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/dsl/ExceptionHandlerSetting.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/LifecycleAware.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/EventHandler.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/AlertException.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/NoOpEventProcessor.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/BatchEventProcessor.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/EventTranslatorTwoArg.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/WorkHandler.java
*
 /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/dsl/EventProcessorInfo.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/SleepingWaitStrategy.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/dsl/EventHandlerGroup.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/SequenceReportingEventHandler.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-

jar/com/lmax/disruptor/SequenceGroup.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/RingBuffer.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/FatalExceptionHandler.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslator.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslatorVararg.java

*
 /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventProcessor.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/ProcessingSequenceBarrier.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/ExceptionHandler.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/MultiProducerSequencer.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/BlockingWaitStrategy.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/Disruptor.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/WaitStrategy.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/util/DaemonThreadFactory.java

*
 /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/AggregateEventHandler.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslatorOneArg.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/AbstractSequencer.java

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/YieldingWaitStrategy.java

No license file was found, but licenses were detected in source scan.

/* Copyright 2016 Gil Tene

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/util/ThreadHints.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 LMAX Ltd.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/ProducerType.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Sequence.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceGroups.java
*
 /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/DataProvider.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Sequencer.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Cursored.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/InsufficientCapacityException.java
* /opt/cola/permits/1257772307_1643010283.4/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/FixedSequenceGroup.java

1.83 mchange-commons-java 0.2.15

1.83.1 Available under license :

Found license 'Eclipse Public License 1.0' in '* This library is free software; you can redistribute it and/or modify *   1) The GNU Lesser General Public License (LGPL), version 2.1, as *   published by the Free Software Foundation *   2) The Eclipse Public License (EPL), version 1.0 * This software is distributed in the hope that it will be useful, * but WITHOUT ANY WARRANTY; without even the implied warranty of * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. * LGPL v2.1: http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html'

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:

i)changes to the Program, and

ii)additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor"
 means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer
 to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no

assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively
 excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL
 DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims
 or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor
 to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such

 Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward

 has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property
 laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Found license 'GNU Lesser General Public License' in '* This library is free software; you can redistribute it and/or modify *   1) The GNU Lesser General Public License (LGPL), version 2.1, as *   published by the Free Software Foundation *   2) The Eclipse Public License (EPL), version 1.0 * This software is distributed in the hope that it will be useful, * but WITHOUT ANY WARRANTY; without even the implied warranty of * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. * LGPL v2.1: http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html'

/*

* Distributed as part of mchange-commons-java 0.2.11

*

* Copyright (C) 2015 Machinery For Change, Inc.

*

* Author: Steve Waldman <swaldman@mchange.com>

*

* This library is free software; you can redistribute it and/or modify

* it under the terms of EITHER:

*

*   1) The GNU Lesser General Public License (LGPL), version 2.1, as

*   published by the Free Software Foundation

*

* OR

*

*   2) The Eclipse Public License (EPL), version 1.0

*

* You may choose which license to accept if you wish to redistribute

* or modify this work. You may offer derivatives of this work

* under the license you have chosen, or you may provide the same

* choice of license which you have been offered here.

*

* This software is distributed in the hope that it will be useful,

* but WITHOUT ANY WARRANTY; without even the implied warranty of

* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

*

* You should have received copies of both LGPL v2.1 and EPL v1.0

* along with this

 software; see the files LICENSE-EPL and LICENSE-LGPL.

* If not, the text of these licenses are currently available at

*

* LGPL v2.1: http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html

* EPL v1.0: http://www.eclipse.org/org/documents/epl-v10.php

*

*/

1.84 jcip-annotation 1.0-1

1.84.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2013 Stephen Connolly.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-

jar/net/jcip/annotations/Immutable.java

* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/NotThreadSafe.java

* /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/ThreadSafe.java

*

 /opt/cola/permits/1257847088_1643019261.83/0/jcip-annotations-1-0-1-sources-
jar/net/jcip/annotations/GuardedBy.java

1.85 feign-form 3.8.0

1.85.1 Available under license :

No license file was found, but licenses were detected in source scan.

Copyright 2019 the original author or authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE
2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Found in path(s):
* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/META-
INF/maven/io.github.openfeign.form/feign-form/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2019 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/multipart/ManyFilesWriter.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/FormEncoder.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/FormProperty.java

*
 /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/util/PojoUtil.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/ContentProcessor.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/multipart/SingleFileWriter.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/multipart/PojoWriter.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/util/CharsetUtil.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/multipart/SingleParameterWriter.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/multipart/DelegateWriter.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/multipart/FormDataWriter.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/FormData.java

*
 /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/multipart/ManyParametersWriter.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/Output.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/multipart/AbstractWriter.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/ContentType.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/MultipartFormContentProcessor.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-jar/feign/form/multipart/Writer.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/multipart/ByteArrayWriter.java

* /opt/cola/permits/1257893430_1643020031.65/0/feign-form-3-8-0-sources-
jar/feign/form/UrlencodedFormContentProcessor.java

1.86 feign-form-spring 3.8.0

1.86.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2019 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1257893209_1643020011.16/0/feign-form-spring-3-8-0-sources-
jar/feign/form/spring/converter/ByteArrayMultipartFile.java
* /opt/cola/permits/1257893209_1643020011.16/0/feign-form-spring-3-8-0-sources-
jar/feign/form/spring/SpringFormEncoder.java
* /opt/cola/permits/1257893209_1643020011.16/0/feign-form-spring-3-8-0-sources-
jar/feign/form/spring/SpringSingleMultipartFileWriter.java
*
 /opt/cola/permits/1257893209_1643020011.16/0/feign-form-spring-3-8-0-sources-
jar/feign/form/spring/SpringManyMultipartFilesWriter.java
* /opt/cola/permits/1257893209_1643020011.16/0/feign-form-spring-3-8-0-sources-
jar/feign/form/spring/converter/SpringManyMultipartFilesReader.java
* /opt/cola/permits/1257893209_1643020011.16/0/feign-form-spring-3-8-0-sources-
jar/feign/form/spring/converter/IgnoreKeyCaseMap.java
No license file was found, but licenses were detected in source scan.

Copyright 2019 the original author or authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE
2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Found in path(s):
* /opt/cola/permits/1257893209_1643020011.16/0/feign-form-spring-3-8-0-sources-jar/META-
INF/maven/io.github.openfeign.form/feign-form-spring/pom.xml

1.87 eddsa 0.3.0

1.87.1 Available under license :

/**

* EdDSA-Java by str4d

*

* To the extent possible under law, the person who associated CC0 with

* EdDSA-Java has waived all copyright and related or neighboring rights

* to EdDSA-Java.

*

* You should have received a copy of the CC0 legalcode along with this

* work. If not, see <https://creativecommons.org/publicdomain/zero/1.0/>.

*

*/

1.88 jboss-logging 3.4.3.Final

1.88.1 Available under license :

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership

of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

1.89 jersey-server 1.19.4

1.89.1 Available under license :

Found license 'General Public License 2.0' in '# Copyright (c) 2013 Oracle and/or its affiliates. All rights reserved. #
The contents of this file are subject to the terms of either the GNU # General Public License Version 2 only ("GPL")
or the Common Development # and Distribution License("CDDL") (collectively, the "License"). You # may not use
this file except in compliance with the License. You can # Oracle designates this particular file as subject to the
"Classpath" # exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2011-2013 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2012 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'Common Development and Distribution License (CDDL) 1.1' in '* Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License * The contents of this file are subject to the terms * of the Common Development and Distribution License * (the "License"). You may not use this file except'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License * The contents of this file are subject to the terms * of the Common Development and Distribution License * (the "License"). You may not use this file except'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2014 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2013 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2016 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2011 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the

"Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2013 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2012 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

1.90 jersey-client 1.19.4

1.90.1 Available under license :

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2015 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2011 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2013 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

1.91 mxparser 1.2.2

1.91.1 Available under license :

Indiana University Extreme! Lab Software License, Version 1.2

Copyright (C) 2003 The Trustees of Indiana University.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are

met:

1) All redistributions of source code must retain the above
   copyright notice, the list of authors in the original source
   code, this list of conditions and the disclaimer listed in this
   license;

2) All redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the disclaimer
   listed in this license in the documentation and/or other
   materials provided with the distribution;

3) Any documentation included with all redistributions must include
   the following acknowledgement:

   "This product includes software developed by the Indiana
   University Extreme! Lab. For further information please visit
   http://www.extreme.indiana.edu/"

   Alternatively,
   this acknowledgment may appear in the software
   itself, and wherever such third-party acknowledgments normally
   appear.

4) The name "Indiana University" or "Indiana University
   Extreme! Lab" shall not be used to endorse or promote
   products derived from this software without prior written
   permission from Indiana University. For written permission,
   please contact http://www.extreme.indiana.edu/.

5) Products derived from this software may not use "Indiana
   University" name nor may "Indiana University" appear in their name,
   without prior written permission of the Indiana University.

Indiana University provides no reassurances that the source code
provided does not infringe the patent or any other intellectual
property rights of any other entity. Indiana University disclaims any
liability to any recipient for claims brought by any other entity
based on infringement of intellectual property rights or otherwise.

LICENSEE UNDERSTANDS THAT SOFTWARE IS PROVIDED
 "AS IS" FOR WHICH
NO WARRANTIES AS TO CAPABILITIES OR ACCURACY ARE MADE. INDIANA
UNIVERSITY GIVES NO WARRANTIES AND MAKES NO REPRESENTATION THAT
SOFTWARE IS FREE OF INFRINGEMENT OF THIRD PARTY PATENT, COPYRIGHT, OR
OTHER PROPRIETARY RIGHTS. INDIANA UNIVERSITY MAKES NO WARRANTIES THAT
SOFTWARE IS FREE FROM "BUGS", "VIRUSES", "TROJAN HORSES", "TRAP
DOORS", "WORMS", OR OTHER HARMFUL CODE. LICENSEE ASSUMES THE ENTIRE

RISK AS TO THE PERFORMANCE OF SOFTWARE AND/OR ASSOCIATED MATERIALS, AND TO THE PERFORMANCE AND VALIDITY OF INFORMATION GENERATED USING SOFTWARE.

1.92 jersey-servlet 1.19.4

1.92.1 Available under license :

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2015 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2014 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2016 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in 'Copyright (c) 2013 Oracle and/or its affiliates. All rights reserved. The contents of this file are subject to the terms of either the GNU General Public License Version 2 only ("GPL") or the Common Development and Distribution License("CDDL") (collectively, the "License"). You may not use this file except in compliance with the License. You can Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2013 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'Common Development and Distribution License (CDDL) 1.1' in 'Copyright (c) 2013 Oracle and/or its affiliates. All rights reserved. The contents of this file are subject to the terms of either the GNU General Public License Version 2 only ("GPL") or the Common Development and Distribution License("CDDL") (collectively, the "License"). You may not use this file except in compliance with the License. You can Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the GPL Version 2 section of the License'

Found license 'General Public License 2.0' in '* Copyright (c) 2010-2017 Oracle and/or its affiliates. All rights reserved. * The contents of this file are subject to the terms of either the GNU * General Public License Version 2 only ("GPL") or the Common Development * and Distribution License("CDDL") (collectively, the "License"). You * may not use this file except in compliance with the License. You can * Oracle designates this particular file as

subject to the "Classpath" * exception as provided by Oracle in the GPL Version 2 section of the License'

1.93 slf4j 1.7.36

1.93.1 Available under license :

CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

                         Apache License
                    Version 2.0, January 2004
                    http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common
    control with that entity. For the purposes of this definition,
    "control" means (i) the power, direct or indirect, to cause the
    direction or management of such entity, whether by contract or
    otherwise, or (ii) ownership of fifty percent (50%) or more of the
    outstanding shares, or (iii) beneficial ownership
 of such entity.

    "You" (or "Your") shall mean an individual or Legal Entity
    exercising permissions granted by this License.

    "Source" form shall mean the preferred form for making modifications,
    including but not limited to software source code, documentation
    source, and configuration files.

    "Object" form shall mean any form resulting from mechanical
    transformation or translation of a Source form, including but
    not limited to compiled object code, generated documentation,
    and conversions to other media types.

    "Work" shall mean the work of authorship, whether in Source or
    Object form, made available under the License, as indicated by a
    copyright notice that is included in or attached to the work
    (an example is provided in the Appendix below).

    "Derivative Works" shall mean any work, whether in Source or Object
    form, that is based on (or derived from) the Work and for which the
    editorial
 revisions, annotations, elaborations, or other modifications
    represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute

copies of the

Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright 1999-2005 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT,
 TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

<div align="center">

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

</div>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License,
each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability

 incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

 END OF TERMS AND CONDITIONS

This product includes software developed by

The Apache Software Foundation (http://www.apache.org/).

1.94 jul-to-slf4j 1.7.36

1.94.1 Available under license :

No license file was found, but licenses were detected in source scan.

/**

* Copyright (c) 2004-2011 QOS.ch

* All rights reserved.

*

* Permission is hereby granted, free of charge, to any person obtaining

* a copy of this software and associated documentation files (the

* "Software"), to deal in the Software without restriction, including

* without limitation the rights to use, copy, modify, merge, publish,

* distribute, sublicense, and/or sell copies of the Software, and to

* permit persons to whom the Software is furnished to do so, subject to

* the following conditions:

*

* The above copyright notice and this permission notice shall be

* included in all copies or substantial portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

* MERCHANTABILITY,   FITNESS   FOR   A   PARTICULAR   PURPOSE   AND

* NONINFRINGEMENT. IN

 NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE

* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION

* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*

*/

Found in path(s):

* /opt/cola/permits/1281455938_1646319090.87/0/jul-to-slf4j-1-7-36-sources-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.95 accessors-smart 2.4.8

1.95.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bnd-LastModified: 1644737816481

Build-Jdk: 11.0.14

Built-By: uriel

Bundle-Description: Java reflect give poor performance on getter sette

r an constructor calls, accessors-smart use ASM to speed up those cal

ls.

Bundle-DocURL: https://urielch.github.io/

Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt

Bundle-ManifestVersion: 2

Bundle-Name: accessors-smart

Bundle-SymbolicName: net.minidev.accessors-smart

Bundle-Vendor: Chemouni Uriel

Bundle-Version: 2.4.8

Created-By: Apache Maven Bundle Plugin

Export-Package: net.minidev.asm;uses:="org.objectweb.asm";version="2.4

.8",net.minidev.asm.ex;version="2.4.8"

Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.e

x

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1281455933_1646319064.35/0/accessors-smart-2-4-8-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):

* /opt/cola/permits/1281455933_1646319064.35/0/accessors-smart-2-4-8-jar/META-INF/maven/net.minidev/accessors-smart/pom.xml

1.96 json-smart 2.4.8

1.96.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bnd-LastModified: 1644737862078

Build-Jdk: 11.0.14

Built-By: uriel

Bundle-Description: JSON (JavaScript Object Notation) is a lightweight
 data-interchange format. It is easy for humans to read and write. It
 is easy for machines to parse and generate. It is based on a subset
of the JavaScript Programming Language, Standard ECMA-262 3rd Edition
 - December 1999. JSON is a text format that is completely language i
ndependent but uses conventions that are familiar to programmers of t
he C-family of languages, including C, C++, C#, Java, JavaScript, Per
l, Python, and many others. These properties make JSON an ideal data-
interchange language.

Bundle-DocURL: https://urielch.github.io/

Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt

Bundle-ManifestVersion: 2

Bundle-Name: json-smart

Bundle-SymbolicName: net.minidev.json-smart

Bundle-Vendor: Chemouni Uriel

Bundle-Version:
 2.4.8

Created-By: Apache Maven Bundle Plugin

Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.js
on.parser,net.minidev.json.reader,net.minidev.json.writer";version="2
.4.8",net.minidev.json.annotate;version="2.4.8",net.minidev.json.pars
er;uses:="net.minidev.json.writer";version="2.4.8",net.minidev.json.r
eader;uses:="net.minidev.json";version="2.4.8",net.minidev.json.write
r;uses:="net.minidev.json,net.minidev.json.parser";version="2.4.8"

Import-Package: net.minidev.asm;version="[2.4,3)",net.minidev.json,net

.minidev.json.annotate,net.minidev.json.parser,net.minidev.json.reade
r,net.minidev.json.writer
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1281455925_1646319080.25/0/json-smart-2-4-8-jar/META-INF/MANIFEST.MF
No license file was found, but licenses were detected in source scan.

<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /opt/cola/permits/1281455925_1646319080.25/0/json-smart-2-4-8-jar/META-INF/maven/net.minidev/json-
smart/pom.xml

1.97 thymeleaf-spring5 3.0.15.RELEASE
1.97.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this

License, each Contributor hereby grants to You a perpetual,
    worldwide, non-exclusive, no-charge, royalty-free, irrevocable
    (except as stated in this section) patent license to make, have made,
    use, offer to sell, sell, import, and otherwise transfer the Work,
    where such license applies only to those patent claims licensable
    by such Contributor that are necessarily infringed by their
    Contribution(s) alone or by combination of their Contribution(s)
    with the Work to which such Contribution(s) was submitted. If You
    institute patent litigation against any entity (including a
    cross-claim or counterclaim in a lawsuit) alleging that the Work
    or a Contribution incorporated within the Work constitutes direct
    or contributory patent infringement, then any patent licenses
    granted to You under this License for that Work shall terminate
    as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
    Work or Derivative Works thereof in any medium, with or without
    modifications, and in Source or Object form, provided that You
    meet the following conditions:

    (a) You must give any other recipients of the Work or
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding
those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2011-2016, The THYMELEAF team (http://www.thymeleaf.org)

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.98 thymeleaf 3.0.15.RELEASE
1.98.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct

or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

1.99 error_prone_annotations 2.10.0

1.99.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2014 The Error Prone Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
*
 /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/NoAllocation.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Error Prone Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/MustBeClosed.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-
jar/com/google/errorprone/annotations/CompatibleWith.java

*
 /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/FormatMethod.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/FormatString.java
No license file was found, but licenses were detected in source scan.

Copyright 2015 The Error Prone Authors.

 Licensed under the Apache License, Version 2.0 (the "License");
 you may not use this file except in compliance with the License.
 You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE
2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.

Found in path(s):
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021 The Error Prone Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/InlineMeValidationDisabled.java

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/InlineMe.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/Modifier.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 The Error Prone Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
*
 /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Error Prone Authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

```
*/
```

Found in path(s):

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java

*
 /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/Var.java

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/CompileTimeConstant.java

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/Immutable.java

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

* /opt/cola/permits/1287386049_1647249958.14/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/ForOverride.java

1.100 log4j-api 2.17.2

1.100.1 Available under license :

Apache Log4j API
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.101 jcl-over-slf4j 1.7.36

1.101.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>

Found in path(s):
* /opt/cola/permits/1288583223_1647358914.34/0/jcl-over-slf4j-1-7-36-jar/META-INF/maven/org.slf4j/jcl-over-slf4j/pom.xml

1.102 logback-core 1.2.11

1.102.1 Available under license :

Eclipse Public License - v 1.0
THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:

i)changes to the Program, and

ii)additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular
Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself
or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are
separate modules of software distributed in conjunction with the Program under their own license agreement, and
(ii) are not derivative works of the Program.

"Contributor"
 means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or
sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer
 to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder,
 each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively
 excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL
 DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims
 or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor
 to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks

associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such
 Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward
 has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property

laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Found license 'Eclipse Public License 1.0' in '* Copyright (C) 1999-2015, QOS.ch. All rights reserved. * This program and the accompanying materials are dual-licensed under * either the terms of the Eclipse Public License v1.0 as published by * under the terms of the GNU Lesser General Public License version 2.1 * as published by the Free Software Foundation.'

Found license 'GNU Lesser General Public License' in '* Copyright (C) 1999-2015, QOS.ch. All rights reserved. * This program and the accompanying materials are dual-licensed under * either the terms of the Eclipse Public License v1.0 as published by * under the terms of the GNU Lesser General Public License version 2.1 * as published by the Free Software Foundation.'

1.103 lang-tag 1.6

1.103.1 Available under license :

No license file was found, but licenses were detected in source scan.

<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /opt/cola/permits/1290251624_1647537869.49/0/lang-tag-1-6-sources-jar/META-INF/maven/com.nimbusds/lang-tag/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* lang-tag
*
* Copyright 2012-2016, Connect2id Ltd.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use
* this file except in compliance with the License. You may obtain a copy of the
* License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed
* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1290251624_1647537869.49/0/lang-tag-1-6-sources-jar/com/nimbusds/langtag/package-info.java
* /opt/cola/permits/1290251624_1647537869.49/0/lang-tag-1-6-sources-jar/com/nimbusds/langtag/LangTag.java
* /opt/cola/permits/1290251624_1647537869.49/0/lang-tag-1-6-sources-jar/com/nimbusds/langtag/ReadOnlyLangTag.java

*

 /opt/cola/permits/1290251624_1647537869.49/0/lang-tag-1-6-sources-
jar/com/nimbusds/langtag/LangTagException.java

* /opt/cola/permits/1290251624_1647537869.49/0/lang-tag-1-6-sources-
jar/com/nimbusds/langtag/LangTagUtils.java

1.104 java-common 0.5-r0
1.104.1 Available under license :

Copyright (C) 2008-2011 INADA Naoki <songofacandy@gmail.com>

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.105 log4j-to-slf4j 2.17.2
1.105.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

   9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

   END OF TERMS AND CONDITIONS

   APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Apache Log4j to SLF4J Adapter

Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

1.106 jjwt 0.9.1

1.106.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2014 jsonwebtoken.io
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/crypto/RsaSigner.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtHandler.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/SigningKeyResolverAdapter.java
*
 /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/ClaimJwtException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jws.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/crypto/SignatureValidatorFactory.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Claims.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/lang/InstantiationException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/crypto/DefaultJwtSigner.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/ClaimsMutator.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/crypto/DefaultJwtSignatureValidator.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/UnsupportedJwtException.java

*
 /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/MacValidator.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwtBuilder.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/JwtSigner.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwsHeader.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/ExpiredJwtException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/JwtSignatureValidator.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Classes.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/TextCodec.java
*
 /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultHeader.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/UnknownClassException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwtParser.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultSignerFactory.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/RsaProvider.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jwts.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/Signer.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignerFactory.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignatureValidator.java
*
 /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultSignatureValidatorFactory.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/RuntimeEnvironment.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/MalformedJwtException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/SignatureException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/AbstractTextCodec.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Collections.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/RsaSignatureValidator.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/SignatureAlgorithm.java
*

/opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtParser.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/MacSigner.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwt.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtHandlerAdapter.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/PrematureJwtException.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Header.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwsHeader.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtBuilder.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jwt.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Strings.java

*
/opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignatureProvider.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/JwtMap.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/RequiredTypeException.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Objects.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Assert.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/Base64Codec.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/MacProvider.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJws.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/Base64UrlCodec.java

*
/opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/SigningKeyResolver.java

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultClaims.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 jsonwebtoken.io
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/crypto/EllipticCurveProvider.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/crypto/EllipticCurveSignatureValidator.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/DefaultTextCodecFactory.java
*
 /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/TextCodecFactory.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/InvalidClaimException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/crypto/EllipticCurveSigner.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/CompressionCodecResolver.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/compression/DefaultCompressionCodecResolver.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/IncorrectClaimException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/compression/DeflateCompressionCodec.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/io/jsonwebtoken/CompressionCodec.java
*
 /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/compression/GzipCompressionCodec.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/compression/CompressionCodecs.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/compression/AbstractCompressionCodec.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/MissingClaimException.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/impl/AndroidBase64Codec.java
* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-
jar/io/jsonwebtoken/CompressionException.java
No license file was found, but licenses were detected in source scan.

~ Copyright (C) 2014 jsonwebtoken.io
 ~
 ~ Licensed under the Apache License, Version 2.0 (the "License");
 ~ you may not use this file except in compliance with the License.
 ~ You may obtain a copy of the License at
 ~
 ~   http://www.apache.org/licenses/LICENSE
2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS,

~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

~ See the License for the specific language governing permissions and

~ limitations under the License.

Found in path(s):

* /opt/cola/permits/1293953499_1648136257.15/0/jjwt-0-9-1-sources-jar/META-
INF/maven/io.jsonwebtoken/jjwt/pom.xml

1.107 zipkin-reporter-metrics-micrometer 2.16.3

1.107.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
      Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
      stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
      that You distribute, all copyright, patent, trademark, and
      attribution notices from the Source form of the Work,
      excluding those notices that do not pertain to any part of
      the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
      distribution, then any Derivative Works that You distribute must
      include a readable copy of the attribution notices contained
      within such NOTICE file, excluding
those notices that do not
      pertain to any part of the Derivative Works, in at least one
      of the following places: within a NOTICE text file distributed
      as part of the Derivative Works; within the Source form or
      documentation, if provided along with the Derivative Works; or,
      within a display generated by the Derivative Works, if and
      wherever such third-party notices normally appear. The contents
      of the NOTICE file are for informational purposes only and
      do not modify the License. You may add Your own attribution
      notices within Derivative Works that You distribute, alongside
      or as an addendum to the NOTICE text from the Work, provided
      that such additional attribution notices cannot be construed
      as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

---

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "{}"

replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

1.108 asm 9.3

1.108.1 Available under license :

No license file was found, but licenses were detected in source scan.

2011 INRIA, France Telecom

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in the

* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/MethodVisitor.java
*
/opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/SymbolTable.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/Constants.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/RecordComponentVisitor.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/Label.java
*
/opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/RecordComponentWriter.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/Symbol.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/ByteVector.java
*
/opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/AnnotationVisitor.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1312150600_1650468744.15/0/asm-9-3-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java

1.109 webjars-locator-core 0.50

1.109.1 Available under license :

MIT

1.110 activation-api 1.2.2

1.110.1 Available under license :

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  - Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

  - Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

  - Neither the name of the Eclipse Foundation, Inc. nor the names of its
    contributors may be used to endorse or promote products derived
    from this software without specific prior written permission.

  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
  IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
  THE IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
  PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
  CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
  EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
  PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
  PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
  LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
  NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
  SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Eclipse Distribution License - v 1.0
Copyright (c) 2007, Eclipse Foundation, Inc. and its licensors.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the
following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Eclipse Foundation, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Notices for Jakarta Activation

This content is produced and maintained by Jakarta Activation project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaf

Copyright

All content is the property of the respective authors or their employers. For more information regarding authorship of content, please consult the listed source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms of the Eclipse Distribution License v. 1.0, which is available at http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaf

Third-party Content

This project leverages the following third party content.

JUnit (4.12)

1.111 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

1.111.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.112 reactive-streams 1.0.4

1.112.1 Available under license :
MIT-0

1.113 bson-record-codec 4.6.1

1.113.1 Available under license :
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0

```
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/RecordCodecProvider.java
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/BsonId.java
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/package-info.java
*
 /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/BsonRepresentation.java
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/package-info.java
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/annotations/BsonProperty.java
* /opt/cola/permits/1356793478_1656997105.287569/0/bson-record-codec-4-6-1-sources-jar/org/bson/codecs/record/RecordCodec.java

1.114 brave-instrumentation-http 5.13.9
1.114.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License,
each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.115 javaewah 1.1.13

1.115.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012, Google Inc.
* Licensed under the Apache License, Version 2.0.
*/

Found in path(s):
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/IntIteratorImpl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012, Google Inc.
* Licensed under the Apache License, Version 2.0.
*/

Found in path(s):
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/IntIteratorImpl32.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2009-2016, Daniel Lemire, Cliff Moon, David McIntosh, Robert Becho, Google Inc., Veronika Zenz,
Owen Kaser, Gregory Ssi-Yan-Kai, Rory Graves
* Licensed under the Apache License, Version 2.0.
*/

Found in path(s):
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/LongArray.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/ReverseIntIterator.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/ChunkIteratorImpl32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/LongBufferWrapper.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/IteratingRLW32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/BitCounter.java
*
 /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/ClearIntIterator.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/IntArray.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/BufferedRunningLengthWord.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/ChunkIterator.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/Buffer32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/BufferedIterator32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/ReverseEWAHIterator32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/ReverseIntIterator32.java
*
 /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/IteratingBufferedRunningLengthWord32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/IteratorAggregation32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/RunningLengthWord32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/BufferedRunningLengthWord32.java
* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-

jar/com/googlecode/javaewah/RunningLengthWord.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah32/ClearIntIterator32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/IntIteratorOverIteratingRLW.java

*

 /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah32/IntIteratorOverIteratingRLW32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/LogicalElement.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/BitmapStorage.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/IntIterator.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/EWAHCompressedBitmap.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah32/IntBufferWrapper.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah32/BitCounter32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/CloneableIterator.java

*

 /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/IteratingBufferedRunningLengthWord.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah32/IteratorUtil32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/ChunkIteratorImpl.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/FastAggregation.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah32/BitmapStorage32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/IteratorUtil.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah32/EWAHIterator32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah32/NonEmptyVirtualStorage32.java

*

 /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/BufferedIterator.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah32/EWAHCompressedBitmap32.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/Buffer.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-jar/com/googlecode/javaewah/IteratingRLW.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/NonEmptyVirtualStorage.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/EWAHIterator.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/ReverseEWAHIterator.java

* /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah32/FastAggregation32.java

*

 /opt/cola/permits/1362667187_1657728131.9014533/0/javaewah-1-1-13-sources-
jar/com/googlecode/javaewah/IteratorAggregation.java

1.116 classgraph 4.8.149

1.116.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* This file is part of ClassGraph.
*
* Author: Harith Elrufaie
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
*
* The MIT License (MIT)
*
* Copyright (c) 2017 Harith Elrufaie
*
* Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
* documentation files (the "Software"), to deal in the Software without restriction, including without
* limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
* the Software, and to permit persons to whom the Software is furnished to do so, subject to the following
* conditions:
*
* The above copyright notice and this permission notice shall be included in all copies or substantial
* portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT
* LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
* EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
* AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE

* OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/FelixClassLoaderHandler.java
No license file was found, but licenses were detected in source scan.

/*
* This file is part of ClassGraph.
*
* Author: Luke Hutchison
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
*
* The MIT License (MIT)
*
* Copyright (c) 2020 Luke Hutchison
*
* Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
* documentation files (the "Software"), to deal in the Software without restriction, including without
* limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
* the Software, and to permit persons to whom the Software is furnished to do so, subject to the following
* conditions:
*
* The above copyright notice and this permission notice shall be included in all copies or substantial
* portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT
* LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
* EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER LIABILITY, WHETHER IN
* AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE
* OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessByteBufferReader.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/ArraySlice.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessArrayReader.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fileslice/PathSlice.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fileslice/Slice.java
*
 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessReader.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fileslice/reader/SequentialReader.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fileslice/reader/ClassfileReader.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fileslice/FileSlice.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessFileChannelReader.java
No license file was found, but licenses were detected in source scan.

/*
* This file is part of ClassGraph.
*
* Author: Michael J. Simons
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
*
* The MIT License (MIT)
*
* Copyright (c) 2019 Luke Hutchison
*
* Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
* documentation files (the "Software"), to deal in the Software without restriction, including without
* limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
* the Software, and to permit persons to whom the Software is furnished to do so, subject to the following
* conditions:
*
* The above copyright notice and this permission notice shall be included in all copies or substantial
* portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT
* LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
* EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
* AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE
* OR OTHER DEALINGS IN THE SOFTWARE.

*/

Found in path(s):
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/SpringBootRestartClassLoaderHandler.java
No license file was found, but licenses were detected in source scan.

/*
* This file is part of ClassGraph.
*
* Author: Luke Hutchison
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
*
* The MIT License (MIT)
*
* Copyright (c) 2019 Luke Hutchison
*
* Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
* documentation files (the "Software"), to deal in the Software without restriction, including without
* limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
* the Software, and to permit persons to whom the Software is furnished to do so, subject to the following
* conditions:
*
* The above copyright notice and this permission notice shall be included in all copies or substantial
* portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT
* LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
* EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER LIABILITY, WHETHER IN
* AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE
* OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/ClasspathElementZip.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/ClassGraph.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-

jar/nonapi/io/github/classgraph/reflection/ReflectionUtils.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/Scanner.java
*
 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/BaseTypeSignature.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/concurrency/SingletonMap.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/json/JSONObject.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/OSGiDefaultClassLoaderHandler.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/json/JSONUtils.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/AnnotationInfoList.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/ModuleReaderProxy.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/FallbackClassLoaderHandler.java
*
 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/json/JSONArray.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/FieldInfo.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/ClassGraphClassLoader.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/utils/URLPathEncoder.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/HasName.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/TypeArgument.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classpath/ClassLoaderFinder.java
*
 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandlerRegistry.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/TypeSignature.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/TomcatWebappClassLoaderBaseHandler.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/TypeVariableSignature.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/scanspec/ScanSpec.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/ScanResultObject.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ParentLastDelegationOrderTestClassLoaderHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/PackageInfo.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ModuleInfoList.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/Classfile.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classpath/CallStackReader.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/utils/StringUtils.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/json/TypeResolutions.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ClassInfoList.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ModuleInfo.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ClasspathElement.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/MethodInfoList.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/JPMSClassLoaderHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/FastZipEntry.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/Resource.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/concurrency/InterruptionChecker.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ClassTypeSignature.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/json/FieldTypeInfo.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/UnoOneJarClassLoaderHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/GraphvizDotfileGenerator.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderOrder.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/MappableInfoList.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-

jar/io/github/classgraph/PackageInfoList.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ClasspathElementModule.java
*
 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ArrayTypeSignature.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classpath/ModuleFinder.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/MethodInfo.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ScanResult.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/json/ReferenceEqualityKey.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/types/ParseException.java
*
 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/utils/ProxyingInputStream.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/FieldInfoList.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/MethodParameterInfo.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/AnnotationParameterValueList.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/utils/VersionFinder.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/json/ParameterizedTypeImpl.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/utils/JarUtils.java
*
 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/TypeParameter.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/types/TypeUtils.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/utils/LogNode.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ReferenceTypeSignature.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ModulePathInfo.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/AnnotationInfo.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ArrayClassInfo.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/json/Id.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ClasspathElementDir.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/LogicalZipFile.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/InfoList.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ClassInfo.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/PotentiallyUnmodifiableList.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/utils/FastPathResolver.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/MethodTypeSignature.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/WeblogicClassLoaderHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/PlexusClassWorldsClassRealmClassLoaderHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/recycler/RecycleOnClose.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/utils/FileUtils.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/json/JSONParser.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/utils/CollectionUtils.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSlice.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/NestedJarHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/URLClassLoaderHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ClassGraphException.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ModuleRef.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/json/JSONDeserializer.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-

jar/nonapi/io/github/classgraph/json/ClassFields.java

*

 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ObjectTypedValueWrapper.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/recycler/Recycler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ClassRefTypeSignature.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ClassRefOrTypeVariableSignature.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassGraphClassLoaderHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/scanspec/AcceptReject.java

*

 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/ClassLoaderHandler.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/AnnotationClassRef.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/recycler/Resettable.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathFinder.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/json/ClassFieldCache.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/json/JSONReference.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/AnnotationEnumValue.java

*

 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/AnnotationParameterValue.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/json/JSONSerializer.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/types/Parser.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/HierarchicalTypeSignature.java

No license file was found, but licenses were detected in source scan.

/*
* This file is part of ClassGraph.
*
* Author: Johno Crawford (johno@sulake.com)
*
* Hosted at: https://github.com/classgraph/classgraph

```
 *
 * --
 *
 * The MIT License (MIT)
 *
 * Copyright (c) 2016 Johno Crawford
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
 * documentation files (the "Software"), to deal in the Software without restriction, including without
 * limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
 * the Software, and to permit persons to whom the Software is furnished to do so, subject to the following
 * conditions:
 *
 * The above copyright notice and this permission notice shall be included in all copies or substantial
 * portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 IMPLIED, INCLUDING BUT NOT
 * LIMITED TO
  THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
 NONINFRINGEMENT. IN NO
 * EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER LIABILITY, WHETHER IN
 * AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE
 * OR OTHER DEALINGS IN THE SOFTWARE.
 */
```

Found in path(s):
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/concurrency/SimpleThreadFactory.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/concurrency/AutoCloseableExecutorService.java
No license file was found, but licenses were detected in source scan.

```
/*
 * This file is part of ClassGraph.
 *
 * Author: R. Kempees
 *
 * With contributions from @cpierceworld (#414)
 *
 * Hosted at: https://github.com/classgraph/classgraph
 *
 * --
 *
 * The MIT License (MIT)
 *
```

Found in path(s):
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/WebsphereLibertyClassLoaderHandler.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/io/github/classgraph/ResourceList.java
No license file was found, but licenses were detected in source scan.

* OR OTHER DEALINGS IN THE SOFTWARE.

*/

Found in path(s):

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/QuarkusClassLoaderHandler.java

No license file was found, but licenses were detected in source scan.

/*

* This file is part of ClassGraph.

*

* Author: Luke Hutchison

*

* Hosted at: https://github.com/classgraph/classgraph

*

* --

*

* The MIT License (MIT)

*

* Copyright (c) 2021 Luke Hutchison

*

* Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated

* documentation files (the "Software"), to deal in the Software without restriction, including without

* limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of

* the Software, and to permit persons to whom the Software is furnished to do so, subject to the following

* conditions:

*

* The above copyright notice and this permission notice shall be included in all copies or substantial

* portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT

* LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO

* EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER LIABILITY, WHETHER IN

* AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE

* OR OTHER DEALINGS IN THE SOFTWARE.

*/

Found in path(s):

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/reflection/NarcissusReflectionDriver.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/reflection/ReflectionDriver.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/reflection/StandardReflectionDriver.java

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/CxfContainerClassLoaderHandler.java
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/reflection/JVMDriverReflectionDriver.java
*
 /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/io/github/classgraph/CloseableByteBuffer.java
No license file was found, but licenses were detected in source scan.

/*
* This file is part of ClassGraph.
*
* Author: Sergey Bespalov
*
* Hosted at: https://github.com/classgraph/classgraph
*
* --
*
* The MIT License (MIT)
*
* Copyright (c) 2017 Sergey Bespalov
*
* Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
* documentation files (the "Software"), to deal in the Software without restriction, including without
* limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
* the Software, and to permit persons to whom the Software is furnished to do so, subject to the following
* conditions:
*
* The above copyright notice and this permission notice shall be included in all copies or substantial
* portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT
* LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
* EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
OR OTHER LIABILITY, WHETHER IN
* AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE
* OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/WebsphereTraditionalClassLoaderHandler.java
No license file was found, but licenses were detected in source scan.

The MIT License (MIT)

Found in path(s):

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/META-
INF/maven/io.github.classgraph/classgraph/pom.xml

No license file was found, but licenses were detected in source scan.

```
/*
 * This file is part of ClassGraph.
 *
 * Author: @jacobg on GitHub
 *
 * Hosted at: https://github.com/classgraph/classgraph
 *
 * --
 *
 * The MIT License (MIT)
 *
 * Copyright (c) 2019 @jacobg, Luke Hutchison
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated
 * documentation files (the "Software"), to deal in the Software without restriction, including without
 * limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
 * the Software, and to permit persons to whom the Software is furnished to do so, subject to the following
 * conditions:
 *
 * The above copyright notice and this permission notice shall be included in all copies or substantial
 * portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT
 * LIMITED TO THE WARRANTIES
 *  OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO
 * EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
 * AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE
 * OR OTHER DEALINGS IN THE SOFTWARE.
 */
```

Found in path(s):

* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/AntClassLoaderHandler.java

No license file was found, but licenses were detected in source scan.

```
/*
 * This file is part of ClassGraph.
 *
 * Author: Luke Hutchison
```

*

* Hosted at: https://github.com/classgraph/classgraph

*

* --

*

* The MIT License (MIT)

*

* Copyright (c) 2019 Luke Hutchison, with significant contributions from Davy De Durpel

*

* Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated

* documentation files (the "Software"), to deal in the Software without restriction, including without

* limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of

* the Software, and to permit persons to whom the Software is furnished to do so, subject to the following

* conditions:

*

* The above copyright notice and this permission notice shall be included in all copies or substantial

* portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,

 INCLUDING BUT NOT

* LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO

* EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN

* AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE

* OR OTHER DEALINGS IN THE SOFTWARE.

*/

Found in path(s):
* /opt/cola/permits/1366065696_1658113689.7612143/0/classgraph-4-8-149-sources-jar/nonapi/io/github/classgraph/classloaderhandler/JBossClassLoaderHandler.java

1.117 gson 2.9.1

1.117.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008 Google Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/annotations/Since.java
*
 /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/ObjectConstructor.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonElement.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/Primitives.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonNull.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/Gson.java
*
 /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/FieldNamingStrategy.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/annotations/Until.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/$Gson$Preconditions.java

*

 /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/InstanceCreator.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonParseException.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonArray.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010 Google Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonSyntaxException.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/Streams.java
No license file was found, but licenses were detected in source scan.

/**
* Copyright (C) 2008 Google Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/$Gson$Types.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2018 The Gson authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/GsonBuildConfig.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2017 The Gson authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/JavaVersion.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/PreJava9DateFormatProvider.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011 Google Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/DateTypeAdapter.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/sql/SqlDateTypeAdapter.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/LazilyParsedNumber.java

*

 /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/sql/SqlTimeTypeAdapter.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/ConstructorConstructor.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/UnsafeAllocator.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2014 Google Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/annotations/JsonAdapter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010 Google Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/stream/MalformedJsonException.java
*
 /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/stream/JsonToken.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020 Google Inc.
*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/bind/NumberTypeAdapter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011 Google Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/JsonReaderInternalAccess.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/bind/ArrayTypeAdapter.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/TypeAdapter.java

*
 /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/bind/ObjectTypeAdapter.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/TypeAdapters.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/TypeAdapterFactory.java
*
 /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010 The Android Open Source Project
* Copyright (C) 2012 Google Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/internal/LinkedTreeMap.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2021 Google Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/ToNumberStrategy.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/ToNumberPolicy.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009 Google Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-jar/com/google/gson/JsonParser.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/FieldAttributes.java

* /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/LongSerializationPolicy.java

*

 /opt/cola/permits/1385266528_1660026490.5295608/0/gson-2-9-1-sources-
jar/com/google/gson/JsonStreamParser.java

1.118 tomcat-coyote 9.0.65

1.118.1 Available under license :

Apache Tomcat

Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

  for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.119 feign-core 11.10

1.119.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012-2022 The Feign Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/CollectionFormat.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-
jar/feign/AsyncContextSupplier.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/Expression.java
*
 /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/codec/ErrorDecoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Request.java

* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/ResponseMapper.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/QueryMapEncoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/Expressions.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/stream/StreamDecoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/MethodMetadata.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/BaseBuilder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Contract.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AlwaysEncodeBodyContract.java
*
 /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Retryer.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/auth/Base64.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/Literal.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/TemplateChunk.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/BodyTemplate.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/HeaderMap.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/SynchronousMethodHandler.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AsyncFeign.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/UriUtils.java
*
 /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Client.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/codec/Decoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/codec/EncodeException.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/ResponseInterceptor.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/codec/Encoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/RequestInterceptor.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/ReflectiveFeign.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/InvocationHandlerFactory.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/QueryTemplate.java
*
 /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/RequestTemplate.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/querymap/FieldQueryMapEncoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/querymap/BeanQueryMapEncoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Feign.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Target.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/RetryableException.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/MethodInfo.java

* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/HeaderTemplate.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/DefaultMethodHandler.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Capability.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Headers.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Types.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Experimental.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/ExceptionPropagationPolicy.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/RequestLine.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Util.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/optionals/OptionalDecoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/UriTemplate.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Body.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Response.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AsyncClient.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/auth/BasicAuthRequestInterceptor.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AsyncJoinException.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/FeignException.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AsyncInvocation.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/QueryMap.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/codec/DecodeException.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/template/Template.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/DeclarativeContract.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/ReflectiveAsyncFeign.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Param.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/codec/StringDecoder.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/InvocationContext.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/Logger.java
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/feign/AsyncResponseHandler.java
No license file was found, but licenses were detected in source scan.

<!--

  Copyright 2012-2022 The Feign Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express

or implied. See the License for the specific language governing permissions and limitations under the License.

-->

Found in path(s):
* /opt/cola/permits/1434278264_1664999337.799366/0/feign-core-11-10-sources-jar/META-INF/maven/io.github.openfeign/feign-core/pom.xml

1.120 feign-okhttp 11.10

1.120.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--

Copyright 2012-2022 The Feign Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express

or implied. See the License for the specific language governing permissions and limitations under the License.

-->

Found in path(s):
* /opt/cola/permits/1434278292_1664999340.2565553/0/feign-okhttp-11-10-sources-jar/META-INF/maven/io.github.openfeign/feign-okhttp/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012-2022 The Feign Authors
*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1434278292_1664999340.2565553/0/feign-okhttp-11-10-sources-jar/feign/okhttp/OkHttpClient.java

1.121 curvesapi 1.07

1.121.1 Available under license :

No license file was found, but licenses were detected in source scan.

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>com.github.virtuald</groupId>
 <artifactId>curvesapi</artifactId>
 <version>1.07</version>
 <name>curvesapi</name>
 <description>Implementation of various mathematical curves that define themselves over a set of control points.
The API is written in Java. The curves supported are: Bezier, B-Spline, Cardinal Spline, Catmull-Rom Spline,
Lagrange, Natural Cubic Spline, and NURBS.</description>
 <url>https://github.com/virtuald/curvesapi</url>

 <build>
  <plugins>
   <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-compiler-plugin</artifactId>
    <configuration>
     <source>1.5</source>
     <target>1.5</target>
    </configuration>
   </plugin>
   <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-jar-plugin</artifactId>
    <configuration>

```xml
      <archive>
        <manifestEntries>
          <Automatic-Module-Name>com.github.virtuald.curvesapi</Automatic-Module-Name>
        </manifestEntries>
      </archive>
    </configuration>
  </plugin>
 </plugins>
</build>

<profiles>
 <profile>
  <id>release</id>
  <build>
   <plugins>
    <plugin>
     <groupId>org.sonatype.plugins</groupId>
     <artifactId>nexus-staging-maven-plugin</artifactId>
     <version>1.6.3</version>
     <extensions>true</extensions>
     <configuration>
       <serverId>ossrh</serverId>
       <nexusUrl>https://oss.sonatype.org/</nexusUrl>
       <autoReleaseAfterClose>true</autoReleaseAfterClose>
     </configuration>
    </plugin>

  <plugin>
       <groupId>org.apache.maven.plugins</groupId>
       <artifactId>maven-source-plugin</artifactId>
       <version>2.4</version>
       <executions>
        <execution>
         <id>attach-sources</id>
         <goals>
           <goal>jar-no-fork</goal>
         </goals>
        </execution>
       </executions>
     </plugin>
     <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>2.10.3</version>
      <executions>
       <execution>
        <id>attach-javadocs</id>
        <goals>
```

```
          <goal>jar</goal>
        </goals>
        <configuration>
          <additionalparam>-Xdoclint:none</additionalparam>
        </configuration>
       </execution>
      </executions>
     </plugin>
     <plugin>
       <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-gpg-plugin</artifactId>
       <version>1.6</version>
       <executions>
        <execution>
          <id>sign-artifacts</id>
          <phase>verify</phase>
          <goals>
            <goal>sign</goal>
          </goals>
        </execution>
       </executions>
     </plugin>
    </plugins>
   </build>
 </profile>
</profiles>

<licenses>
  <license>
    <name>BSD License</name>
    <url>http://opensource.org/licenses/BSD-3-Clause</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<scm>
  <url>https://github.com/virtuald/curvesapi</url>
  <connection>scm:git:git://github.com/virtuald/curvesapi.git</connection>
  <developerConnection>scm:git:git@github.com:virtuald/curvesapi.git</developerConnection>
</scm>

<developers>
  <developer>
   <name>stormdollar</name>
   <url>http://sourceforge.net/u/stormdollar/profile/</url>
    <id>stormdollar</id>
  </developer>
  <developer>
```

```
    <name>Dustin Spicuzza</name>
    <url>https://github.com/virtuald</url>
    <id>virtuald</id>
  </developer>
 </developers>

 <dependencies>
  <dependency>
   <groupId>junit</groupId>
   <artifactId>junit</artifactId>
   <version>4.13.2</version>
   <scope>test</scope>
  </dependency>
 </dependencies>

</project>
```

Found in path(s):
* /opt/cola/permits/1437119490_1665387004.428388/0/curvesapi-1-07-1-jar/META-
INF/maven/com.github.virtuald/curvesapi/pom.xml

1.122 itext-pdf 5.5.13.3

1.122.1 Available under license :

             GNU AFFERO GENERAL PUBLIC LICENSE
              Version 3, 19 November 2007

 Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
 Everyone is permitted to copy and distribute verbatim copies
 of this license document, but changing it is not allowed.

                Preamble

 The GNU Affero General Public License is a free, copyleft license for
software and other kinds of works, specifically designed to ensure
cooperation with the community in the case of network server software.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
our General Public Licenses are intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have

the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

Developers that use our General Public Licenses protect your rights
with two steps: (1) assert copyright on the software, and (2) offer
you this License which gives you legal permission to copy, distribute
and/or modify the software.

A secondary benefit of defending all users' freedom is that
improvements made in alternate versions of the program, if they
receive widespread use, become available for other developers to
incorporate. Many developers of free software are heartened and
encouraged by the resulting cooperation. However, in the case of
software used on network servers, this result may fail to come about.
The GNU General Public License permits making a modified version and
letting the public access it on a server
 without ever releasing its
source code to the public.

The GNU Affero General Public License is designed specifically to
ensure that, in such cases, the modified source code becomes available
to the community. It requires the operator of a network server to
provide the source code of the modified version running there to the
users of that server. Therefore, public use of a modified version, on
a publicly accessible server, gives the public access to the source
code of the modified version.

An older license, called the Affero General Public License and
published by Affero, was designed to accomplish similar goals. This is
a different license, not a version of the Affero GPL, but Affero has
released a new version of the Affero GPL which permits relicensing under
this license.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU Affero
General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making
available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard
Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major

Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means
 all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted
 under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your

direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed; section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users,
 your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent
notices stating that you modified
  it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section
7. This requirement modifies the requirement in section 4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this
License to anyone who comes into possession of a copy. This
License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not
make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source
fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially,
and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

 A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

 A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer
 product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent

the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed
 under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special
 password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate
 copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification
 of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on
  those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files,

a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

 8. Termination.

 You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover,
 your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other
 than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under
 the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether
 already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make
 such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

 If, pursuant to or in connection with
 a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

 A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent
 license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that
 obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Remote Network Interaction; Use with the GNU General Public License.

Notwithstanding any other provision of this License, if you modify the
Program, your modified version must prominently offer all users
interacting with it remotely through a computer network (if your version
supports such interaction) an opportunity to receive the Corresponding
Source of your version by providing access to the Corresponding Source
from a network server at no charge, through some standard or customary
means of facilitating copying of software. This Corresponding Source
shall include the Corresponding Source for any work covered by version 3
of the GNU General Public License that is incorporated pursuant to the
following paragraph.

Notwithstanding any other provision of this
 License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the work with which it is combined will remain governed by version
3 of the GNU General Public License.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU Affero General Public License from time to time. Such new versions
will be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU Affero General

Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later
 version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU Affero General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU Affero General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED
 TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17. Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation
 of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates

an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of
what it does.>
  Copyright (C) <year> <name of author>

  This program is free software: you can redistribute it and/or modify
  it under the terms of the GNU Affero General Public License as published by
  the Free Software Foundation, either version 3 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU Affero General Public License for more details.

  You should have received a copy of the GNU Affero General Public License
  along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If your software can interact with users remotely through a computer
network, you should also make sure that it provides a way for users to
get its source. For example, if your program is
 a web application, its
interface could display a "Source" link that leads users to an archive
of the code. There are many ways you could offer source, and different
solutions will be better for different programs; see section 13 for the
specific requirements.

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU AGPL, see

<http://www.gnu.org/licenses/>.
/*
 *
 * This file is part of the iText (R) project.
   Copyright (c) 1998-2022 iText Group NV
 * Authors: Bruno Lowagie, Paulo Soares, et al.
 *
 * This program is free software; you can redistribute it and/or modify
 * it under the terms of the GNU Affero General Public License version 3
 * as published by the Free Software Foundation with the addition of the
 * following permission added to Section 15 as permitted in Section 7(a):
 * FOR ANY PART OF THE COVERED WORK IN WHICH THE COPYRIGHT IS OWNED BY
 * ITEXT GROUP. ITEXT GROUP DISCLAIMS THE WARRANTY OF NON INFRINGEMENT
 * OF THIRD PARTY RIGHTS
 *
 * This program is distributed in the hope that it will be useful, but
 * WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
 * or FITNESS FOR A PARTICULAR PURPOSE.
 * See the GNU Affero General Public License for more details.
 * You should have received a copy of the GNU Affero General Public License
 * along with this program; if not, see http://www.gnu.org/licenses
 or write to
 * the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor,
 * Boston, MA, 02110-1301 USA, or download the license from the following URL:
 * http://itextpdf.com/terms-of-use/
 *
 * The interactive user interfaces in modified source and object code versions
 * of this program must display Appropriate Legal Notices, as required under
 * Section 5 of the GNU Affero General Public License.
 *
 * In accordance with Section 7(b) of the GNU Affero General Public License,
 * a covered work must retain the producer line in every PDF that is created
 * or manipulated using iText.
 *
 * You can be released from the requirements of the license by purchasing
 * a commercial license. Buying such a license is mandatory as soon as you
 * develop commercial activities involving the iText software without
 * disclosing the source code of your own applications.
 * These activities include: offering paid services to customers as an ASP,
 * serving PDFs on the fly in a web application,
 shipping iText with a closed
 * source product.
 *
 * For more information, please contact iText Software Corp. at this
 * address: sales@itextpdf.com
 */

1.123 commons-jxpath 1.3

1.123.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
Apache Commons JXPath
Copyright 2001-2008 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

1.124 apache-commons-text 1.10.0
1.124.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership

of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and
limitations under the License.

Apache Commons Text

Copyright 2014-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

1.125 content-type 2.2

1.125.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* oauth2-oidc-sdk
*
* Copyright 2020, Connect2id Ltd and contributors.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use
* this file except in compliance with the License. You may obtain a copy of the
* License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed
* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1446393953_1666186115.6012564/0/content-type-2-2-sources-1-
jar/com/nimbusds/common/contenttype/ContentType.java

1.126 oauth2-oidc-sdk 9.35

1.126.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* oauth2-oidc-sdk
*
* Copyright 2012-2016, Connect2id Ltd and contributors.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use
* this file except in compliance with the License. You may obtain a copy of the

* License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed
* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
/**
 * Confidential. Clients capable of maintaining the confidentiality of
 * their credentials (e.g., client implemented on a secure server with
 * restricted access to the client credentials), or capable of secure
 * client authentication using other means.
 */
/**
 * Public. Clients
incapable of maintaining the confidentiality of their
 * credentials (e.g., clients executing on the device used by the
 * resource owner, such as an installed native application or a web
 * browser-based application), and incapable of secure client
 * authentication via any other means.
 */

Found in path(s):
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/client/ClientType.java
No license file was found, but licenses were detected in source scan.

/*
* oauth2-oidc-sdk
*
* Copyright 2012-2016, Connect2id Ltd and contributors.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use
* this file except in compliance with the License. You may obtain a copy of the
* License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed
* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
/**
 * Creates a new authenticated pushed authorisation request for a
 * confidential client.

```
 *
 * @param uri        The URI of the token endpoint. May be
 *                   {@code null} if the {@link #toHTTPRequest}
 *                   method will not be used.
 * @param clientAuth
  The client authentication. Must not be
 *                   {@code null}.
 * @param authzRequest The authorisation request. Must not be
 *                   {@code null}.
 */
```

Found in path(s):
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/PushedAuthorizationRequest.java
No license file was found, but licenses were detected in source scan.

<name>Apache License, version 2.0</name>

Found in path(s):
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/META-
INF/maven/com.nimbusds/oauth2-oidc-sdk/pom.xml
No license file was found, but licenses were detected in source scan.

```
/*
 * oauth2-oidc-sdk
 *
 * Copyright 2012-2020, Connect2id Ltd and contributors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use
 * this file except in compliance with the License. You may obtain a copy of the
 * License at
 *
 *    http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed
 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations under the License.
 */
```

Found in path(s):
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/dpop/DPoPUtils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationSuccessResponse.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/entities/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/registration/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainRetriever.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/entities/FederationMetadataType.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainSet.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/RPMetadataPolicyFactory.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/WellKnownPathComposeStrategy.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationErrorResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyOperationApplication.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingSpec.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/FederationAPIRequest.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/DefaultPolicyOperationCombinationValidator.ja
va
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/dpop/DefaultDPoPProofFactory.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/ClaimsSetRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/ConfigurationType.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/DefaultEntityStatementRetriever.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/package-info.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/ExactMatchEntityIDConstraint.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityMetadataValidator.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/dpop/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/op/EndpointName.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ciba/AuthRequestID.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/registration/ExplicitClientRegistrationRequest.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingSuccessResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/ResolveException.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/marks/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/PolicyOperationFactory.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/PolicyOperationCombinationValidator.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/TrustChainConstraints.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingErrorResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/OperationType.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/rp/statement/InvalidSoftwareStatementException.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/FederationAPIError.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/request/VerifiedClaimsSetRequest.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicy.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatementClaimsVerifier.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/SubtreeEntityIDConstraint.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/DefaultRPMetadataPolicyFactory.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementRequest.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainResolver.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/rp/statement/SoftwareStatementProcessor.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChain.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/DefaultTrustChainRetriever.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ciba/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/claims/VerifiedClaimsSetRequest.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/registration/ClientRegistrationType.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/OIDCClaimsRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityStatementRetriever.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/EntityIDConstraint.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatement.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementSuccessResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityRole.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/InvalidEntityMetadataException.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementErrorResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementResponse.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/dpop/DPoPProofFactory.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicyEntry.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/rp/statement/package-info.java
No license file was found, but licenses were detected in source scan.

/*
* oauth2-oidc-sdk
*

Found in path(s):

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-

jar/com/nimbusds/openid/connect/sdk/validators/BadJWTExceptions.java

No license file was found, but licenses were detected in source scan.

/**

* OpenID Connect client information. Encapsulates the registration and

* metadata details of an OpenID Connect client:

*

*

*   The client identifier.

*   The client OpenID Connect metadata.

*   The optional client secret for a confidential client.

*

  The optional registration URI and access token if dynamic client

*   registration is permitted.

*

*

* <p>Related specifications:

*

*

*   OpenID Connect Dynamic Client Registration 1.0.

*   OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section

*   3.2.1.

*   OAuth 2.0 Dynamic Client Registration Management Protocol (RFC

*   7592), section 3.

*

*/

Found in path(s):

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-

jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientInformation.java

No license file was found, but licenses were detected in source scan.

/*

* oauth2-oidc-sdk

*

* Copyright 2012-2016, Connect2id Ltd and contributors.

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use

* this file except in compliance with the License. You may obtain a copy of the

* License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software distributed

* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR

* CONDITIONS OF ANY KIND, either express or implied. See the License for the

* specific language governing permissions and limitations under the License.

*/

/**

* Client information. Encapsulates the registration and metadata details of

* an OAuth 2.0 client:

*

*

*   The client identifier.

*   The client metadata.

*   The optional client secret for a confidential client.

*   The optional registration URI

 and access token if dynamic client

*   registration is permitted.

*

*

* <p>Related specifications:

*

*

```
*     <li>OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section
*         3.2.1.
*     <li>OAuth 2.0 Dynamic Client Registration Management Protocol (RFC
*         7592), section 3.
* </ul>
*/
```

// The client must by unambiguously public, else it is marked as confidential

Found in path(s):
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/client/ClientInformation.java
No license file was found, but licenses were detected in source scan.

```
/*
* oauth2-oidc-sdk
*
* Copyright 2012-2016, Connect2id Ltd and contributors.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use
* this file except in compliance with the License. You may obtain a copy of the
* License at
*
*    http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed
* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/tls/TLSUtils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/SerializeException.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/token/AccessTokenType.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/AuthorizationCodeGrant.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/AggregatedClaims.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyOperation.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/AuthorizationGrant.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/op/OIDCProviderConfigurationRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/SuccessResponse.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/http/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/jose/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/util/ResourceUtils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/claims/ISO3166_1Alpha2CountryCode.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/ClientSecretJWT.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/client/ClientReadRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/id/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/language/OperationName.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationErrorResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/claims/ISO3166_1Alpha3CountryCode.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/TokenResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/IdentityVerification.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/DocumentDetails.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/AMR.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/ClientSecretPost.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/validators/StateValidator.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/api/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/ClaimsTransport.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/as/AuthorizationServerMetadata.java
*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/DocumentType.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/jarm/JARMValidator.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/ElectronicRecordDetails.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/UserInfo.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/secevent/sdk/claims/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/auth/JWTAuthentication.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/jose/SecretKeyDerivation.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/id/SectorIDURIValidator.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/BackChannelTokenDeliveryMode.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/http/HTTPMessage.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/secevent/sdk/claims/TXN.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/Prompt.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/AuthorizationErrorResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/assertions/package-info.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/AuthorizedParty.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/AbstractAuthenticatedRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/ClaimRequirement.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/UserInfoRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/EssentialOperation.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/ElectronicRecordType.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionValidator.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IDDocumentDescription.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-

jar/com/nimbusds/openid/connect/sdk/assurance/claims/VerifiedClaimsSet.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/PlainClientSecret.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/assertions/jwt/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/TokenIntrospectionSuccessResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/rp/package-info.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/ClaimsSet.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/util/date/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientRegistrationRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/token/RefreshToken.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/CommonClaimsSet.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ClientCredentialsGrant.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/DefaultPolicyOperationFactory.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/op/AuthenticationRequestResolver.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/jarm/JARMUtils.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/as/AuthorizationServerConfigurationRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/id/Actor.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/JWTBearerGrant.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/ClientSecretBasic.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ResourceOwnerPasswordCredentialsGrant.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/Utils.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/OIDCScopeValue.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/id/Identifier.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/rp/ApplicationType.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/JWTClaimsSetUtils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/client/ClientUpdateRequest.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/client/ClientDeleteRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/id/InvalidPairwiseSubjectException.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/claims/ISO3166_1AlphaCountryCode.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/BooleanOperation.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/CIBAErrorResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/http/HTTPRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/claims/CountryCode.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/URIUtils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/op/ACRRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyViolationException.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/CodeHash.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/id/package-info.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/X509CertificateUtils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/token/DPoPAccessToken.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/SupersetOfOperation.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/token/TypelessAccessToken.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/pkce/CodeChallenge.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/Nonce.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-

jar/com/nimbusds/openid/connect/sdk/AuthenticationSuccessResponse.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ResponseMode.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/validators/AccessTokenValidator.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationGrantError.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/verifier/InvalidClientException.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/AbstractOptionallyAuthenticatedRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/Display.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/util/JSONObjectUtils.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/VouchType.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/util/JSONArrayUtils.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/Role.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/id/HashBasedPairwiseSubjectCodec.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/SelfSignedTLSClientAuthentication.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/AbstractRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientMetadata.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/ACR.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ciba/CIBAGrant.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/SAML2BearerGrant.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTSuccessResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/device/DeviceCodeGrant.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/assertions/AssertionDetails.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatementClaimsSet.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/UserInfoResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/auth/verifier/JWTAuthenticationClaimsSetVerifier.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/op/OIDCProviderMetadata.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/device/DeviceCode.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/TokenIntrospectionRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/as/AuthorizationServerEndpointMetadata.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/date/SimpleDate.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/ContentTypeUtils.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/auth/PrivateKeyJWT.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/TokenIntrospectionErrorResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/id/SectorID.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/assertions/jwt/JWTAssertionDetails.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/claims/ISO3166_3CountryCode.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/NumberConfiguration.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientRegistrationResponseParser.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/id/SIVAESBasedPairwiseSubjectCodec.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ErrorObject.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/OIDCTokenResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/op/AuthenticationRequestDetector.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/package-info.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/PushedAuthorizationResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-

jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientUpdateRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/SubjectType.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/op/ResolveException.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/client/ClientCredentialsParser.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/util/CollectionUtils.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/op/OIDCProviderEndpointMetadata.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/claims/Birthplace.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/http/HTTPResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/validators/AuthorizationCodeValidator.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/RefreshTokenGrant.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/validators/LogoutTokenValidator.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionDetailsVerifier.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/ExternalClaims.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/util/MapUtils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ErrorResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ProtectedResourceRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/AccessTokenResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationSuccessResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/http/HTTPEndpoint.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/AuthenticationResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/OIDCError.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/id/SoftwareID.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/verifier/ClientAuthenticationVerifier.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/verifier/PKIClientX509CertificateBindingVerifier.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/JWTAuthenticationClaimsSet.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/config/package-info.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/trust/marks/TrustMarkClaimsSet.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/jarm/JARMClaimsVerifier.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2Utils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/TokenErrorResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/SubsetOfOperation.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/validators/package-info.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/PolicyFormulationException.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/device/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/util/tls/TLSVersion.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/AuthorizationResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/assertions/jwt/JWTAssertionFactory.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/http/ServletUtils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IDDocumentType.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityID.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/id/PairwiseSubjectCodec.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/client/RegistrationError.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/client/ClientRegistrationResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/verifier/ClientX509CertificateBindingVerifier.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-

jar/com/nimbusds/oauth2/sdk/util/JSONUtils.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/token/package-info.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/validators/LogoutTokenClaimsVerifier.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/id/Issuer.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/VouchEvidence.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/PushedAuthorizationSuccessResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/StateHash.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/language/UntypedOperation.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityEvidenceType.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/ValueOperation.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/GeneralException.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ParseException.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/assertions/saml2/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/validators/InvalidHashException.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/package-info.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/util/OrderedJSONObject.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/OIDCTokenResponseParser.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/verifier/Hint.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientInformationResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/client/ClientRegistrationRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/TokenRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/language/BooleanConfiguration.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/op/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/SessionID.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IDDocumentEvidence.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyConfiguration.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/TokenIntrospectionResponse.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/ElectronicSignatureEvidence.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/OAuth2Error.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityVerificationMethod.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/IDTokenClaimsSet.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/auth/X509CertificateConfirmation.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/CIBARequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/CommonOIDCTokenClaimsSet.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/AuthorizationSuccessResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/VerificationProcess.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ResponseType.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/Message.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/AuthenticationErrorResponse.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/AbstractOptionallyIdentifiedRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-

jar/com/nimbusds/oauth2/sdk/util/tls/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/verifier/Context.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/assertions/saml2/BadSAML2AssertionException.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/util/date/DateWithTimeZoneOffset.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/AuthorizationCode.java

*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/verifier/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/id/State.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/UtilityBillEvidence.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/PushedAuthorizationErrorResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/token/DPoPTokenError.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/token/TokenEncoding.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/validators/AbstractJWTValidator.java

*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationErrorResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/auth/verifier/ClientCredentialsSelector.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/AccessTokenHash.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/id/SoftwareVersion.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/Scope.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/ClaimType.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringListOperation.java

*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/LogoutTokenClaimsSet.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ciba/CIBAResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/assertions/jwt/JWTAssertionDetailsVerifier.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/OneOfOperation.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/HashClaim.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationSuccessResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/client/ClientInformationResponse.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringOperation.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/claims/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/auth/TLSClientAuthentication.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/AuthorizationRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/OIDCResponseTypeValidator.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/auth/PKITLSClientAuthentication.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/UserInfoErrorResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/as/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/pkce/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/token/Tokens.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/auth/ClientAuthenticationMethod.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/jarm/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityEvidence.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/QESEvidence.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/id/Audience.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/auth/ClientAuthentication.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/token/Token.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/validators/IDTokenValidator.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-

jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTErrorResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/token/OIDCTokens.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/IdentityAssuranceLevel.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/ExternalClaimsUtils.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/BackChannelLogoutRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionDetails.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/util/URLUtils.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/AbstractConfigurationRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/Gender.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/token/BearerAccessToken.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/Response.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/token/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/pkce/CodeChallengeMethod.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/OIDCResponseTypeValue.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/AuthenticationRequest.java

*

 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/Request.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/AuthenticationResponseParser.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/UserInfoSuccessResponse.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/entities/FederationEntityMetadata.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringConfiguration.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/device/UserCode.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/IdentityTrustFramework.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringListConfiguration.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/auth/Secret.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/MultivaluedMapUtils.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/claims/PersonClaims.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityVerifier.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/id/Subject.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/id/JWTID.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/DefaultOperation.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/AddOperation.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/pkce/CodeVerifier.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/id/AuthorizedParty.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/StringUtils.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/validators/IDTokenClaimsVerifier.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/client/ClientMetadata.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/ClaimsRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/Attestation.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionFactory.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/AssertionGrant.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/LogoutRequest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/token/BearerTokenError.java

*

/opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/client/package-info.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-

jar/com/nimbusds/oauth2/sdk/as/ReadOnlyAuthorizationServerEndpointMetadata.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/token/AccessToken.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationRequest.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/id/ClientID.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/ElectronicRecordEvidence.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/AbstractSetBasedOperation.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/client/ClientRegistrationErrorResponse.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/DocumentEvidence.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/Address.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/claims/DistributedClaims.java
No license file was found, but licenses were detected in source scan.

/*
* oauth2-oidc-sdk
*
* Copyright 2012-2016, Connect2id Ltd and contributors.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use
* this file except in compliance with the License. You may obtain a copy of the
* License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed
* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
/**
 * Creates a new request object POST request where the parameters are
 * submitted as plain JSON object, and the client authenticates by
 * means of mutual TLS. TLS also ensures the integrity and
 * confidentiality of the request parameters. This method is not
 * standard.
 *
 *
@param uri   The URI of the request object endpoint. May
 *   be {@code null} if the

```
 *                    {@link #toHTTPRequest} method will not be
 *                    used.
 * @param tlsClientAuth     The mutual TLS client authentication. Must
 *                    not be {@code null}.
 * @param requestJSONObject The request parameters as plain JSON
 *                    object. Must not be {@code null}.
 */
```

Found in path(s):
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTRequest.java
No license file was found, but licenses were detected in source scan.

```
/*
 * oauth2-oidc-sdk
 *
 * Copyright 2012-2016, Connect2id Ltd and contributors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use
 * this file except in compliance with the License. You may obtain a copy of the
 * License at
 *
 *    http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed
 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations under the License.
 */
/**
 * Token revocation request. Used to revoke an issued access or refresh token.
 *
 * <p>Example token revocation request for a confidential client:
 *
 * <pre>
 * POST /revoke HTTP/1.1
 * Host: server.example.com
 * Content-Type: application/x-www-form-urlencoded
 * Authorization: Basic
 czZCaGRSa3F0MzpnWDFmQmF0M2JW
 *
 * token=45ghiukldjahdnhzdauz&amp;token_type_hint=refresh_token
 * </pre>
 *
 * <p>Example token revocation request for a public client:
 *
 * <pre>
 * POST /revoke HTTP/1.1
```

```
 * Host: server.example.com
 * Content-Type: application/x-www-form-urlencoded
 *
 * token=45ghiukldjahdnhzdauz&amp;token_type_hint=refresh_token&amp;client_id=123456
 * </pre>
 *
 * <p>Related specifications:
 *
 * <ul>
 *     <li>OAuth 2.0 Token Revocation (RFC 7009), section 2.1.
 * </ul>
 */
/**
 * Creates a new token revocation request for a confidential client.
 *
 * @param uri        The URI of the token revocation endpoint. May be
 *                   {@code null} if the {@link #toHTTPRequest} method
 *                   will not be used.
 * @param clientAuth The client authentication. Must not be
 *                   {@code null}.
 * @param token      The access or refresh token to revoke. Must not be
 *                   {@code null}.
 */
// confidential client
```

Found
 in path(s):
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/TokenRevocationRequest.java
No license file was found, but licenses were detected in source scan.

```
/*
 * oauth2-oidc-sdk
 *
 * Copyright 2012-2021, Connect2id Ltd and contributors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use
 * this file except in compliance with the License. You may obtain a copy of the
 * License at
 *
 *    http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed
 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations under the License.
 */
/**
```

```
 * Authorisation code. Client authentication required only for
 * confidential clients.
 */
/**
 * Refresh token. Client authentication required only for confidential
 * clients.
 */
/**
 * Password. Client authentication required only for confidential
 * clients.
 */
```

Found in
 path(s):
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/GrantType.java
No license file was found, but licenses were detected in source scan.

```
/*
 * oauth2-oidc-sdk
 *
 * Copyright 2012-2021, Connect2id Ltd and contributors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use
 * this file except in compliance with the License. You may obtain a copy of the
 * License at
 *
 *    http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed
 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations under the License.
 */
```

Found in path(s):
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/Policy.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/Procedure.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/ciba/CIBAError.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/EmbeddedAttachment.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-
jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPProtectedResourceRequestVerifier.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-

jar/com/nimbusds/openid/connect/sdk/assurance/evidences/PersonalNumber.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/ValidationMethodType.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/claims/MSISDN.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/HashAlgorithm.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/op/ReadOnlyOIDCProviderMetadata.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/IdentityAssuranceProcess.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/Jurisdiction.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/CommonOriginatorAttributes.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/CommonMethodAttributes.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPIssuer.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/InvalidDPoPProofException.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/token/NAAccessToken.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/AttachmentType.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/Content.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/request/MinimalVerificationSpec.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/ElectronicRecordSource.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/JWKThumbprintConfirmation.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/Voucher.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/token/TokenSchemeError.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/CIBATokenDelivery.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/claims/ISO3166_1AlphaCountryCodeMapper.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/Digest.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/singleuse/AlreadyUsedException.java

*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/tokenexchange/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/singleuse/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/ReferenceNumber.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/CIBAErrorDelivery.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/DocumentNumber.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/Name.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/op/ReadOnlyOIDCProviderEndpointMetadata.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/Organization.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/DigestMismatchException.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/as/ReadOnlyAuthorizationServerMetadata.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/SerialNumber.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/ListUtils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/request/package-info.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/VerificationMethod.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/CIBAHintType.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/CIBAPingCallback.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPProofContext.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/Occupation.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/VerificationMethodType.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/util/singleuse/SingleUseChecker.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPCommonVerifier.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPProofClaimsSetVerifier.java

* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/Attachment.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/AccessTokenValidationException.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/ValidationMethod.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/request/VerificationSpec.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/CIBASignedRequestClaimsSet.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPTokenRequestVerifier.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/SignatureType.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/Status.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DPoPKeySelector.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/DocumentIssuer.java
*
 /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/package-info.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/token/AccessTokenUtils.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/dpop/verifiers/DefaultDPoPSingleUseChecker.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/CIBAPushCallback.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/attachment/ExternalAttachment.java
* /opt/cola/permits/1446393945_1666186134.442599/0/oauth2-oidc-sdk-9-35-sources-1-jar/com/nimbusds/oauth2/sdk/ciba/CIBARequestAcknowledgement.java

1.127 hibernate-validator 6.2.5.Final

1.127.1 Available under license :

Adam Stawicki

Ahmed Al Hafoudh

Alaa Nassef

Andrey Derevyanko

Andrey Rodionov

Asutosh Pandya

Benson Margulies

Brent Douglas

Carlos Vara

Carlo de Wolf

Chris Beckey

Christian Ivan

Dag Hovland

Damir Alibegovic

Dario Seidl

Davide D'Alto

Davide Marchignoli

Denis Tiago

Doug Lea

Emmanuel Bernard

Efthymis Sarbanis

Federico

Federico Mancini

Gavin King

George Gastaldi

Gerhard Petracek

Guillaume Husta

Guillaume Smet

Gunnar Morling

Hardy Ferentschik

Henno Vermeulen

Hillmer Chona

Jan-Willem Willebrands

Jason T. Greene

Jesper Preuss

Jiri Bilek

Julien Furgerot

Julien May

Juraci Krohling

Justin Nauman

Kathryn Killebrew

Kazuki Shimizu

Kevin Pollet

Khalid Alqinyah

Lee KyoungIl

Leonardo Loch Zanivan

Lucas Pouzac

Lukas Niemeier

Mark Hobson

Marko Bekhta

Matthias Kurz

Mert Caliskan

Michal Fotyga

Nicola Ferraro

Nicolas Franois

Paolo Perrotta

Pete Muir

Rob Dickinson

Sanne Grinovero

Sebastian Bayerl

Shahram Goodarzi

Shane Bryzak

Shelly McGowan

Sjaak Derksen

Steve Ebersole

Strong Liu

Tadhg Pearson

Takashi Aoe

Tomaz

 Cerar

Tommy Johansen

Victor Rezende dos Santos

Willi Schnborn

Xavier Sosnovsky

Yanming Zhou

Yoann Rodire

Hibernate Validator, declare and validate application constraints

License: Apache License, Version 2.0
See the license.txt file in the root directory or <http://www.apache.org/licenses/LICENSE-2.0>.

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership

of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this

License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct

or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the

Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained

within such NOTICE file, excluding
those notices that do not

pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,

indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.128 poi 5.2.3

1.128.1 Available under license :

Apache POI
Copyright 2003-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This product contains parts that were originally based on software from BEA.
Copyright (c) 2000-2003, BEA Systems, <http://www.bea.com/> (dead link),
which was acquired by Oracle Corporation in 2008.
<http://www.oracle.com/us/corporate/Acquisitions/bea/index.html>
<https://en.wikipedia.org/wiki/BEA_Systems>
Note: The ASF Secretary has on hand a Software Grant Agreement (SGA) from
BEA Systems, Inc. dated 9 Sep 2003 for XMLBeans signed by their EVP/CFO.

This product contains W3C XML Schema documents. Copyright 2001-2003 (c)
World Wide Web Consortium (Massachusetts Institute of Technology, European
Research Consortium for Informatics and Mathematics, Keio University)

This product contains the chunks_parse_cmds.tbl file from the vsdump program.
Copyright (C) 2006-2007 Valek Filippov (frob@df.ru)

This product contains parts of
 the eID Applet project
<http://eid-applet.googlecode.com> and <https://github.com/e-Contract/eid-applet>.
Copyright (c) 2009-2018
FedICT (federal ICT department of Belgium), e-Contract.be BVBA (https://www.e-contract.be),
Bart Hanssens from FedICT

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership

of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding
those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

APACHE POI SUBCOMPONENTS:

Apache POI includes subcomponents with separate copyright notices and
license terms. Your use of these subcomponents is subject to the terms
and conditions of the following licenses:

Office Open XML schemas (poi-ooxml-full-*.jar)

  The Office Open XML schema definitions used by Apache POI are
  a part of the Office Open XML ECMA Specification (ECMA-376, [1]).
  As defined in section 9.4 of the ECMA bylaws [2], this specification
  is available to all interested parties without restriction:

    9.4 All documents when approved shall be made available to
       all interested parties without
 restriction.

  Furthermore, both Microsoft and Adobe have granted patent licenses
  to this work [3,4,5].

  [1] http://www.ecma-international.org/publications/standards/Ecma-376.htm
  [2] http://www.ecma-international.org/memento/Ecmabylaws.htm
  [3] http://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx
  [4] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/
      Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf
  [5] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/
      Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf

Bouncy Castle library (bcprov-*.jar, bcpg-*.jar, bcpkix-*.jar)

  Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc.
  (https://www.bouncycastle.org)

  Permission is hereby granted, free of charge, to any person obtaining a
  copy of this software and associated documentation files (the "Software"),
   to deal in the Software without restriction, including without limitation
  the rights to use, copy, modify, merge, publish, distribute, sublicense,
  and/or sell copies of the Software, and to permit persons to whom the
  Software is furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in
  all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

CurvesAPI / Curve API

BSD License

Copyright (c) 2000-2015
www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of Hamcrest nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Log4j 2 library (log4j-api-*.jar)

Apache License Version 2.0

inbot-utils (https://github.com/Inbot/inbot-utils)

The MIT License (MIT)

Copyright (c) 2015 Inbot

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.129 xml-beans 5.1.1

1.129.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*   Copyright 2004 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*   limitations under the License.
*/
/**
  * Do not enforce the unique particle attribution rule.
  */

Found in path(s):

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/tool/XMLBean.java
No license file was found, but licenses were detected in source scan.

/*   Copyright 2017, 2018 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*   limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/SimpleTypeFactory.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/StaxHelper.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/SAXHelper.java
No license file was found, but licenses were detected in source scan.

/*   Copyright 2004 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*   limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/config/PrePostExtensionImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/InterfaceExtension.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/PrePostExtension.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/util/Diff.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/Filer.java
No license file was found, but licenses were detected in source scan.

/*   Copyright 2004 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*   limitations under the License.
*/
/**
    * @return true to disable unique particle attribution rule, false othervise
    * Default is false.
    */
/**
    * set true to disable unique particle attribution rule, false othervise
    */

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xsd2inst/SchemaInstanceGenerator.java
No license file was found, but licenses were detected in source scan.

<!-- Copyright 2004 The Apache Software Foundation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and

limitations under the License. -->

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/metadata/src/xmlconfig.xsd
No license file was found, but licenses were detected in source scan.

/*   Copyright 2019 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*   limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/DefaultClassLoaderResourceLoader.java
No license file was found, but licenses were detected in source scan.

/* ==
   Licensed to the Apache Software Foundation (ASF) under one or more
   contributor license agreements. See the NOTICE file distributed with
   this work for additional information regarding copyright ownership.
   The ASF licenses this file to You under the Apache License, Version 2.0
   (the "License"); you may not use this file except in compliance with
   the License. You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
   ==
 */

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/util/SuppressForbidden.java

No license file was found, but licenses were detected in source scan.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/message_fr.properties
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/message.properties
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/message_ja.properties
No license file was found, but licenses were detected in source scan.

/*   Copyright 2004 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*   limitations under the License.
*/
/** deactivate unique particle attribution - default: false */

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/MavenPlugin.java
No license file was found, but licenses were detected in source scan.

/*   Copyright 2004 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,

```
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*  limitations under the License.
*/
/**
  * cos-nonambig: See
  * <a href="http://www.w3c.org/TR/xmlschema-1/#cos-nonambig">XMLSchema Structures 1.0: Unique Particle
Attribution</a>
  */
```

Found in path(s):

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlErrorCodes.java

No license file was found, but licenses were detected in source scan.

```
/*   Copyright 2004-2018 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*  limitations under the License.
*/
```

Found in path(s):

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/DocumentHelper.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XMLBeansConstants.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/Locale.java

No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
```

*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/regex/RegularExpression.java
No license file was found, but licenses were detected in source scan.

/*   Copyright 2004 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
   * If this option is set, the unique particle attribution rule is not
   * enforced when building a {@code SchemaTypeSystem}. See
   * Appendix H of the XML Schema
specification
   * for information on the UPA rule.
   *
   * @see XmlBeans#compileXsd
   */

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlOptions.java
No license file was found, but licenses were detected in source scan.

/*   Copyright 2004 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at\\
*

```
*       http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*   limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlTokenSource.java
No license file was found, but licenses were detected in source scan.

```
##  Licensed under the Apache License, Version 2.0 (the "License");
##  you may not use this file except in compliance with the License.
##  You may obtain a copy of the License at
##      http://www.apache.org/licenses/LICENSE-2.0
##  distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/message.properties
No license file was found, but licenses were detected in source scan.

```
/*  Copyright 2004 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*       http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*   limitations under the License.
*/
// if we can, then particle attribution is not unique
```

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/StscComplexTypeResolver.java
No license file was found, but licenses were detected in source scan.

```
/*  Copyright 2004 The Apache Software Foundation
*
```

Found in path(s):

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/DelegateXmlObject.java

No license file was found, but licenses were detected in source scan.

Found in path(s):

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/metadata/src/xsdownload.xsd

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/metadata/src/substwsdl.xsd

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/metadata/src/ltgfmt.xsd

No license file was found, but licenses were detected in source scan.

```
*       http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*   limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/Mutex.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SoapPartDom.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/Space.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlBase64Binary.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlUnsignedLong.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SoapBodyElementXobj.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPConnectionFactory.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/ProcInstXobj.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/XQuerySchemaTypeSystem.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPConstants.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/XQuery.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XmlReaderToWriter.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlRuntimeException.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/NamedNodeXobj.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/EncodingMap.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/GlobalLock.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/XsbDumper.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/saxon/SaxonXQuery.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaDoubleHolder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlGYearImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlValueNotSupportedException.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlAnyTypeImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlQNameRestriction.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/SchemaCompiler.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SoapFaultXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/Jsr173.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlGMonthImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SaajTextNode.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/CodeGenUtil.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/xmlbeans/XmlbeansXPath.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlID.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/StringEnumValue.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaParticleImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlDate.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlException.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlToken.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/UserType.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/Op.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/ElementAttributes.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/config/NameSet.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

jar/org/apache/xmlbeans/impl/values/XmlAnySimpleTypeImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SoapHeaderElementXobj.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaStringEnumEntry.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/inst2xsd/XsdGenStrategy.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaTypeSystemImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XmlObjectList.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/soap/SOAPArrayType.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlHexBinaryRestriction.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlUnsignedByteImpl.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlAnyURI.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlGYearMonthImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/PrefixResolver.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/ParseException.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/util/XsTypeConverter.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/DetailEntryXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/StartElement.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/ResolverUtil.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/config/ChildSolverCollectionStrategy.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlNegativeIntegerImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/inst2xsd/util/Attribute.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlLineNumber.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaBooleanHolderEx.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlSimpleList.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/ParserForXMLSchema.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/StscChecker.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlGMonth.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/DocumentFactory.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SoapFaultElementXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/ProcessingInstruction.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/repackage/EditBuildScript.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/inst2xsd/VenetianBlindStrategy.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaAnnotation.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlDateTime.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/SchemaCompilerExtension.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlNmTokenImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/REUtil.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaFloatHolder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlByteImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XmlWhitespace.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlObjectBase.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/CdataNode.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaGlobalAttribute.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlNormalizedStringImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/IntStack.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/TypeHierarchyPrinter.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

jar/org/apache/xmlbeans/impl/store/SoapEnvelopeXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/store/SoapPartDocXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlHexBinaryImpl.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/GDurationBuilder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/GDateSpecification.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlENTITY.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/xml/stream/events/ElementTypeNames.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlNCNameImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/XmlStreamUtils.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/SchemaModelGroupImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/config/Parser.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlFloatImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlComplexContentImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/ValidatorListener.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlDateImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/regex/RegexParser.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/store/DetailXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlCursor.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/SchemaTypeElementSequencer.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/tool/PrettyPrinter.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/SchemaGlobalElementImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/xpath/XPathExecutionContext.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/tool/MavenPluginResolver.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlNonPositiveIntegerImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPBodyElement.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlDuration.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/validator/ValidatorUtil.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaTypeCodePrinter.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/GDate.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/SystemCache.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlLongRestriction.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlTime.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlLongImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlIntegerRestriction.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/GDateBuilder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/NodeXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaListXmlObject.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/SniffedXmlInputStream.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/CharNode.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/InvalidLexicalValueException.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaDecimalHolder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/CDataBookmark.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlShort.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlEntitiesImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPBody.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

jar/org/apache/xmlbeans/impl/soap/AttachmentPart.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlDateTimeImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/ElementFactory.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/inst2xsd/util/Element.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XMLChar.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/DocumentFragXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaAttributeGroupImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/RunXQuery.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaAttributeModelImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlNormalizedString.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaDependencies.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlByte.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlUnsignedIntImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaGDateHolderEx.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/NamespaceContext.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlIDREFS.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/inst2xsd/SalamiSliceStrategy.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SimpleValue.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlIDREF.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlAnyUriRestriction.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/StartDocument.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/TypeStore.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlStringRestriction.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/SchemaImportResolver.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XmlEventBase.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaTypePool.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaIntegerHolderEx.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SoapHeaderXobj.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPFactory.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlQName.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlListImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/StscJavaizer.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlUnsignedInt.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/ValidationContext.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/CommandLine.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/validator/ValidatingXMLStreamReader.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/Saver.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XmlErrorWatcher.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/StscSimpleTypeResolver.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlCalendar.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlString.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPConnection.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlBooleanImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/repackage/Repackager.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/saxon/SaxonXPath.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

jar/org/apache/xmlbeans/XmlError.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/CharUtil.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/xmlbeans/XmlbeansXPathEngine.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/StartPrefixMapping.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/ResourceLoader.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/StringEnumAbstractBase.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaTypeSystemCompiler.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/XPathCompilationContext.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/Saaj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/XPath.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaContainer.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/validator/Validator.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlValueOutOfRangeException.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/SniffedXmlReader.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/MessageFactory.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/config/UserTypeImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/RangeToken.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/EndDocument.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlDurationImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPMessage.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaTypeLoader.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaType.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/ClassLoaderResourceLoader.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/StscResolver.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPHeaderElement.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPEnvelope.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlBoolean.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/EndPrefixMapping.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlShortImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/richParser/XMLStreamReaderExtImpl.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaLocalElementImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaListObject.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlDecimalRestriction.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/IdentityConstraint.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/DomImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaUriHolder.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlDecimalImpl.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XmlNameImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaTypeLoaderException.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/QNameSetBuilder.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlGDay.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlStringEnumeration.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlGMonthDayImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XmlLocale.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/AttrIdXobj.java
*

/opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/EndElement.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/soap/SchemaWSDLArrayType.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/StscTranslator.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XMLNameHelper.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaLongHolderEx.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlNotationImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/StreamInstanceValidator.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlDoubleImpl.java

*
/opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/ReaderInputStream.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlIntegerImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlInteger.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaTypeLoaderImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/CharacterData.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaQNameHolderEx.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaStringHolder.java

*
/opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/QNameHelper.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlENTITIES.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/XPathStep.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/SchemaCopy.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/StscImporter.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaBase64Holder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaBookmark.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaLocalAttribute.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/Path.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/NamespaceManager.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlDoubleRestriction.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaParticle.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaAnnotationImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/CommentXobj.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlTokenImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlUnsignedLongImpl.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/Validate.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SaajCdataNode.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPHeader.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/Node.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlSaxHandler.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/inst2xsd/RussianDollStrategy.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/MavenPluginHelp.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaGDurationHolderEx.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaIdentityConstraint.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/BindingConfig.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlAnyUriImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaModelGroup.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaStringEnumEntryImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SoapBodyXobj.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

jar/org/apache/xmlbeans/GDuration.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlNCName.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaHexBinaryHolder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaTypeVisitorImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaAttributeModel.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaTypeLoaderBase.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaProperty.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/inst2xsd/Inst2Xsd.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlLong.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/ObjectFactory.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/InstanceValidator.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlHexBinary.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlValidationError.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/DetailEntry.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlDocumentProperties.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/EntityReference.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaGlobalElement.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaAttributeGroup.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlQNameImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/TextNode.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlInt.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XmlEncodingSniffer.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/FactorImports.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlNMTOKEN.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlIdRefImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/TypeStoreUser.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/TypeStoreUserFactory.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlNMTOKENS.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaNotationHolder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlAnySimpleTypeRestriction.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlIntImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlTimeImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlLanguage.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/BuiltinSchemaTypeSystem.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlBeans.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlValueNotNillableException.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlAnySimpleType.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlNmTokensImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaStringEnumerationHolderEx.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlStringImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/IOUtil.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaDecimalHolderEx.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/XmlErrorPrinter.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/TypeSystemHolder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/Xobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

jar/org/apache/xmlbeans/impl/util/HexBin.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaFloatHolderEx.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlFloat.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlPositiveInteger.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaPropertyImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPPart.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlNOTATION.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/PushedInputStream.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaGlobalAttributeImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/config/BindingConfigImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/QNameCache.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/ChangePrefixMapping.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/GDurationSpecification.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlObject.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/DocumentXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/DomSaver.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaNotationHolderEx.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/Cursor.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlUnionImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/FactoryFinder.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/util/LongUTFDataOutputStream.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/FilterXmlObject.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaLongHolder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlDouble.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/config/NameSetBuilder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SchemaTypeImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/XPathFactory.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaHexBinaryHolderEx.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaCodePrinter.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlIdRefsImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/config/InterfaceExtensionImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/QNameSet.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/richParser/XMLStreamReaderExt.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaIntegerHolder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlFloatRestriction.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlOptionCharEscapeMap.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaComponent.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/Text.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPFaultElement.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/ElementXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/SoapEncSchemaTypeSystem.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/saxon/SaxonXPathEngine.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPException.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlPositiveIntegerImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/SchemaRegularExpression.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

jar/org/apache/xmlbeans/impl/values/XmlValueDisconnectedException.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/SchemaLocalAttributeImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/JavaIntHolder.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/TypeStoreVisitor.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/soap/SOAPFault.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/PathResourceLoader.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/soap/Name.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlBase64BinaryRestriction.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/xml/stream/Comment.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/inst2xsd/util/TypeSystemHolder.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/XsbReader.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlNonPositiveInteger.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/store/AttrXobj.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/tool/Extension.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/soap/Detail.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/ThreadLocalUtil.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/QNameSetSpecification.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/xml/stream/ElementFilter.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/repackage/Repackage.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlNotationRestriction.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/tool/SchemaCodeGenerator.java
*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/tool/SchemaResourceManager.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlGYear.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/Levenshtein.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/inst2xsd/util/Type.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaAnnotated.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/soap/SOAPElement.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpathgen/XPathGenerator.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlLanguageImpl.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/XmlValueRef.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaBooleanHolder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlBooleanRestriction.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/Parameters.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/Match.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/Attribute.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaLocalElement.java

*

 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlName.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaTypeSystem.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/Bookmark.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/Cur.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlNameImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/Location.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/NameUtil.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/xpath/XPathEngine.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/Token.java

*

/opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/util/LongUTFDataInputStream.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/XMLEvent.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlBase64BinaryImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaBase64HolderEx.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlGYearMonth.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlIntRestriction.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SystemProperties.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlDecimal.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/tool/BaseSchemaResourceManager.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/store/SoapElementXobj.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlNonNegativeInteger.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlGDayImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/XMLName.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/SchemaField.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/common/JarHelper.java

*
 /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/xml/stream/AttributeIterator.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/FileResourceLoader.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlFactoryHook.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/schema/AbstractDocumentFactory.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/XmlNonNegativeIntegerImpl.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/values/JavaQNameHolder.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/impl/regex/BMPattern.java

* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-jar/org/apache/xmlbeans/XmlUnsignedByte.java

*
/opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/validator/ValidatingInfoXMLStreamReader.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/JavaUriHolderEx.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlUnsignedShortImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/util/FilerImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/inst2xsd/Inst2XsdOptions.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/store/QNameFactory.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/soap/MimeHeader.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlIdImpl.java
*
/opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/LoadSaveUtils.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlNegativeInteger.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/JavaDoubleHolderEx.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/xsd2inst/SampleXmlUtil.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/xpathgen/XPathGenerationException.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlGMonthDay.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/XmlEntityImpl.java
*
/opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/Sax2Dom.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/JavaStringHolderEx.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/SchemaIdentityConstraintImpl.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/common/XBeanDebug.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/XmlObjectFactory.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/XmlUnsignedShort.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/values/JavaIntHolderEx.java
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-

jar/org/apache/xmlbeans/impl/soap/MimeHeaders.java

No license file was found, but licenses were detected in source scan.

/*   Copyright 2004 The Apache Software Foundation
*
*   Licensed under the Apache License, Version 2.0 (the "License");
*   you may not use this file except in compliance with the License.
*   You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
*   Unless required by applicable law or agreed to in writing, software
*   distributed under the License is distributed on an "AS IS" BASIS,
*   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
*   See the License for the specific language governing permissions and
*   limitations under the License.
*/
/**
   * True if no unique particle attribution option is set
   */

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/impl/schema/StscState.java

No license file was found, but licenses were detected in source scan.

<!--
   Copyright 2004 The Apache Software Foundation

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
-->

Found in path(s):
* /opt/cola/permits/1451440951_1666719681.2920227/0/xmlbeans-5-1-1-sources-
jar/org/apache/xmlbeans/package.html

1.130 kotlin 1.6.21

1.130.1 Available under license :

No license file was found, but licenses were detected in source scan.

{"version":3,"file":"kotlin.js","sources":["wrapper.js","js/arrayUtils.js","js/callableReferenceUtils.js","js/conversions.js","js/core.js","js/long.js","js/markerFunctions.js","js/misc.js","js/polyfills.js","js/rtti.js","runtime/arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","common/src/generated/_Arrays.kt","common/src/generated/_Ranges.kt","unsigned/src/kotlin/UByte.kt","unsigned/src/kotlin/UInt.kt","unsigned/src/kotlin/UShort.kt","builtin-sources/Ranges.kt","src/kotlin/collections/Collections.kt","src/kotlin/collections/Maps.kt","src/kotlin/collections/Sets.kt","src/kotlin/text/StringNumberConversions.kt","src/kotlin/time/Duration.kt","unsigned/src/kotlin/UnsignedUtils.kt","src/kotlin/collections/Iterables.kt","src/kotlin/collections/Sequences.kt","src/kotlin/util/Preconditions.kt","js/src/generated/_ArraysJs.kt","src/kotlin/comparisons/Comparisons.kt","src/kotlin/util/Standard.kt","js/src/generated/_ComparisonsJs.kt","unsigned/src/kotlin/ULong.kt","common/src/generated/_Collections.kt","js/src/kotlin/collections.kt","src/kotlin/collections/Iterators.kt","common/src/generated/_Comparisons.kt","common/src/generated/_Maps.kt","common/src/generated/_OneToManyTitlecaseMappings.kt","js/src/kotlin/text/char.kt","js/src/kotlin/text/string.kt","src/kotlin/text/Char.kt","src/kotlin/CharCode.kt","common/src/generated/_Sequences.kt","common/src/generated/_Sets.kt","common/src/generated/_Strings.kt","src/kotlin/text/Strings.kt","unsigned/src/kotlin/UByteArray.kt","unsigned/src/kotlin/UIntArray.kt","unsigned/src/kotlin/ULongArray.kt","unsigned/src/kotlin/UShortArray.kt","common/src/generated/_UArrays.kt","common/src/generated/_UCollections.kt","common/src/generated/_UComparisons.kt","common/src/generated/_URanges.kt","common/src/generated/_USequences.kt","common/src/kotlin/ExceptionsH.kt","common/src/kotlin/JsAnnotationsH.kt","common/src/kotlin/ioH.kt","builtin-sources/Collections.kt","builtin-sources/Iterators.kt","builtin-sources/ProgressionIterators.kt","builtin-sources/Progressions.kt","builtin-sources/Range.kt","builtin-sources/Unit.kt","builtin-sources/annotation/Annotations.kt","builtin-sources/internal/InternalAnnotations.kt","builtin-sources/internal/progressionUtil.kt","src/kotlin/builtins.kt","src/kotlin/jsTypeOf.kt","src/kotlin/kotlin.kt","src/kotlin/charCode_js-v1.kt","src/kotlin/coroutines/CoroutineImpl.kt","src/kotlin/util/Result.kt","src/kotlin/coroutines/Continuation.kt","src/kotlin/coroutines/intrinsics/IntrinsicsJs.kt","src/kotlin/currentBeMisc.kt","src/kotlin/exceptions.kt","src/kotlin/jsOperators.kt","src/kotlin/math_js-v1.kt","src/kotlin/numbers_js-v1.kt","src/kotlin/reflection_js-v1.kt","src/kotlin/text/numberConversions_js-v1.kt","js/src/generated/_CharCategories.kt","js/src/generated/_CollectionsJs.kt","js/src/generated/_DigitChars.kt","js/src/generated/_LetterChars.kt","js/src/generated/_OtherLowercaseChars.kt","js/src/generated/_OtherUppercaseChars.kt","js/src/generated/_StringsJs.kt","js/src/generated/_TitlecaseMappings.kt","js/src/generated/_UArraysJs.kt","js/src/generated/_WhitespaceChars.kt","js/src/kotlin/Comparator.kt","js/src/kotlin/annotations.kt","js/src/kotlin/annotationsJVM.kt","js/src/kotlin/collections/AbstractMutableCollection.kt","js/src/kotlin/collections/AbstractMutableList.kt","js/src/kotlin/collections/AbstractMutableMap.kt","js/src/kotlin/collections/AbstractMutableSet.kt","js/src/kotlin/collections/ArrayList.kt","js/src/kotlin/collections/ArraySorting.kt","js/src/kotlin/collections/ArraysJs.kt","js/src/kotlin/collections/EqualityComparator.kt","js/src/kotlin/collections/HashMap.kt","js/src/kotlin/collections/HashSet.kt","js/src/kotlin/collections/InternalHashCodeMap.kt","js/src/kotlin/collections/InternalMap.kt","js/src/kotlin/collections/InternalStringMap.kt","js/src/kotlin/collections/LinkedHashMap.kt","js/src/kotlin/collections/LinkedHashSet.kt","js/src/kotlin/concurrent.kt","js/src/kotlin/console.kt","js/src/kotlin/coroutines/SafeContinuationJs.kt","js/src/kotlin/coroutines/cancellation/CancellationException.kt","js/src/kotlin/coroutines/js/internal/EmptyContinuation.kt","js/src/kotlin/date.kt","js/src/kotlin/dom/Builders.kt","js/src/kotlin/dom/Classes.kt","js/src/kotlin/dom/Dom.kt","js/src/kotlin/dom/EventListener.kt","js/src/kotlin/dom/ItemArrayLike.kt","js/src/kotlin/dom/Mutations.kt","js/src/kotlin/dynamic.kt","js/src/kotlin/exceptionUtils.kt","js/src/kotlin/grouping.kt","src/kotlin/collections/Grouping.kt","js/src/kotlin/internalAnnotations.kt","js/src/kotlin/json.kt","js/src/kotlin/math.kt","js/src/kotlin/numbers.kt","js/src/kotlin/promise.

kt","js/src/kotlin/random/PlatformRandom.kt","js/src/kotlin/reflect/AssociatedObjects.kt","js/src/kotlin/reflect/JsCla ss.kt","js/src/kotlin/reflect/KClassImpl.kt","js/src/kotlin/reflect/KClassesImpl.kt","js/src/kotlin/reflect/KTypeHelper s.kt","js/src/kotlin/reflect/KTypeImpl.kt","js/src/kotlin/reflect/KTypeParameterImpl.kt","js/src/kotlin/reflect/primitiv es.kt","js/src/kotlin/reflect/reflection.kt","js/src/kotlin/regexp.kt","js/src/kotlin/sequence.kt","js/src/kotlin/text/CharC ategoryJS.kt","js/src/kotlin/text/CharacterCodingExceptionJs.kt","js/src/kotlin/text/StringBuilderJs.kt","js/src/kotlin/ text/numberConversions.kt","js/src/kotlin/text/regex.kt","src/kotlin/text/StringBuilder.kt","js/src/kotlin/text/stringsC ode.kt","js/src/kotlin/text/utf8Encoding.kt","js/src/kotlin/throwableExtensions.kt","js/src/kotlin/time/DurationJs.kt", "js/src/kotlin/time/DurationUnit.kt","js/src/kotlin/time/MonoTimeSource.kt","js/src/kotlinx/dom/Builders.kt","js/src/ kotlinx/dom/Classes.kt","src/kotlin/text/regex/RegexExtensions.kt","js/src/kotlinx/dom/Dom.kt","js/src/kotlinx/dom /Mutations.kt","js/src/org.w3c/deprecated.kt","js/src/org.w3c/org.khronos.webgl.kt","js/src/org.w3c/org.w3c.dom.cli pboard.kt","js/src/org.w3c/org.w3c.dom.css.kt","js/src/org.w3c/org.w3c.dom.encryptedmedia.kt","js/src/org.w3c/or g.w3c.dom.events.kt","js/src/org.w3c/org.w3c.dom.kt","js/src/org.w3c/org.w3c.fetch.kt","js/src/org.w3c/org.w3c.do m.mediacapture.kt","js/src/org.w3c/org.w3c.dom.mediasource.kt","js/src/org.w3c/org.w3c.dom.pointerevents.kt","js /src/org.w3c/org.w3c.dom.svg.kt","js/src/org.w3c/org.w3c.files.kt","js/src/org.w3c/org.w3c.notifications.kt","js/src/ org.w3c/org.w3c.workers.kt","js/src/org.w3c/org.w3c.xhr.kt","src/kotlin/annotations/Experimental.kt","src/kotlin/an notations/ExperimentalStdlibApi.kt","src/kotlin/annotations/Inference.kt","src/kotlin/annotations/Multiplatform.kt", "src/kotlin/annotations/OptIn.kt","src/kotlin/collections/AbstractCollection.kt","src/kotlin/collections/AbstractIterato r.kt","src/kotlin/collections/AbstractList.kt","src/kotlin/collections/AbstractMap.kt","src/kotlin/collections/AbstractS et.kt","src/kotlin/collections/ArrayDeque.kt","src/kotlin/collections/Arrays.kt","src/kotlin/collections/BrittleContains Optimization.kt","src/kotlin/collections/IndexedValue.kt","src/kotlin/collections/MapAccessors.kt","src/kotlin/colle ctions/MapWithDefault.kt","src/kotlin/collections/MutableCollections.kt","src/kotlin/collections/ReversedViews.kt" ,"src/kotlin/collections/SequenceBuilder.kt","src/kotlin/collections/SlidingWindow.kt","src/kotlin/collections/UArra ySorting.kt","src/kotlin/comparisons/compareTo.kt","src/kotlin/contracts/ContractBuilder.kt","src/kotlin/coroutines/ ContinuationInterceptor.kt","src/kotlin/coroutines/CoroutineContext.kt","src/kotlin/coroutines/CoroutineContextImp l.kt","src/kotlin/coroutines/intrinsics/Intrinsics.kt","src/kotlin/experimental/bitwiseOperations.kt","src/kotlin/experi mental/inferenceMarker.kt","src/kotlin/internal/Annotations.kt","src/kotlin/properties/Delegates.kt","src/kotlin/prop erties/Interfaces.kt","src/kotlin/properties/ObservableProperty.kt","src/kotlin/properties/PropertyReferenceDelegates .kt","src/kotlin/random/Random.kt","src/kotlin/random/URandom.kt","src/kotlin/random/XorWowRandom.kt","src/ kotlin/ranges/Ranges.kt","src/kotlin/reflect/KClasses.kt","src/kotlin/reflect/KTypeProjection.kt","src/kotlin/reflect/K Variance.kt","src/kotlin/reflect/typeOf.kt","src/kotlin/text/Appendable.kt","src/kotlin/text/Indent.kt","src/kotlin/text/ Typography.kt","src/kotlin/text/regex/MatchResult.kt","src/kotlin/time/DurationUnit.kt","src/kotlin/time/Experimen talTime.kt","src/kotlin/time/TimeSource.kt","src/kotlin/time/TimeSources.kt","src/kotlin/time/measureTime.kt","src /kotlin/util/DeepRecursive.kt","src/kotlin/util/FloorDivMod.kt","src/kotlin/util/HashCode.kt","src/kotlin/util/Kotlin Version.kt","src/kotlin/util/Lateinit.kt","src/kotlin/util/Lazy.kt","src/kotlin/util/Numbers.kt","src/kotlin/util/Suspend. kt","src/kotlin/util/Tuples.kt","unsigned/src/kotlin/UIntRange.kt","unsigned/src/kotlin/UIterators.kt","unsigned/src/k otlin/ULongRange.kt","unsigned/src/kotlin/UMath.kt","unsigned/src/kotlin/UNumbers.kt","unsigned/src/kotlin/UPr ogressionUtil.kt","unsigned/src/kotlin/UStrings.kt","unsigned/src/kotlin/annotations/Unsigned.kt","common/src/kotl in/MathH.kt"],"sourcesContent":["(function

(root, factory) {\n   if (typeof define === 'function' && define.amd) {\n   define('kotlin', ['exports'], factory);\n }\n   else if (typeof exports === 'object') {\n   factory(module.exports);\n   }\n   else {\n   root.kotlin = {};\n   factory(root.kotlin);\n   }\n}(this, function (Kotlin) {\n   var _ = Kotlin;\n\n   insertContent();\n}));\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\nKotlin.isBooleanArray = function (a) {\n   return (Array.isArray(a) || a instanceof Int8Array) && a.$type$ === \"BooleanArray\"\n};\n\nKotlin.isByteArray = function (a) {\n   return a instanceof Int8Array && a.$type$!== \"BooleanArray\"\n};\n\nKotlin.isShortArray = function (a) {\n   return a instanceof Int16Array\n};\n\nKotlin.isCharArray = function (a) {\n   return a instanceof Uint16Array

&& a.$type$ === \"CharArray\"\n};\n\nKotlin.isIntArray = function (a) {\n   return a instanceof Int32Array\n};\n\nKotlin.isFloatArray = function (a) {\n   return a instanceof Float32Array\n};\n\nKotlin.isDoubleArray = function (a) {\n   return a instanceof Float64Array\n};\n\nKotlin.isLongArray = function (a) {\n   return Array.isArray(a) && a.$type$ === \"LongArray\"\n};\n\nKotlin.isArray = function (a) {\n   return Array.isArray(a) && !a.$type$;\n};\n\nKotlin.isArrayish = function (a) {\n   return Array.isArray(a) || ArrayBuffer.isView(a)\n};\n\nKotlin.arrayToString = function (a) {\n   if (a === null) return \"null\"\n   var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;\n   return \"[\" + Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\";\n};\n\nKotlin.arrayDeepToString = function (arr) {\n   return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n};\n\nKotlin.arrayEquals = function (a, b) {\n

    if (a === b) {\n   return true;\n   }\n   if (a === null || b === null || !Kotlin.isArrayish(b) || a.length !== b.length) {\n   return false;\n   }\n\n   for (var i = 0, n = a.length; i < n; i++) {\n   if (!Kotlin.equals(a[i], b[i])) {\n   return false;\n   }\n   }\n   return true;\n};\n\nKotlin.arrayDeepEquals = function (a, b) {\n   return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n};\n\nKotlin.arrayHashCode = function (arr) {\n   if (arr === null) return 0\n   var result = 1;\n   for (var i = 0, n = arr.length; i < n; i++) {\n   result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;\n   }\n   return result;\n};\n\nKotlin.arrayDeepHashCode = function (arr) {\n   return Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n   array.sort(Kotlin.doubleCompareTo)\n};\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n

 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.getCallableRef = function(name, f) {\n   f.callableName = name;\n   return f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n   getter.get = getter;\n   getter.set = setter;\n   getter.callableName = name;\n   return getPropertyRefClass(getter, setter, propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction getPropertyRefClass(obj, setter, cache) {\n   obj.$metadata$ = getPropertyRefMetadata(typeof setter === \"function\" ? cache.mutable : cache.immutable);\n   obj.constructor = obj;\n   return obj;\n}\n\nvar propertyRefClassMetadataCache = [\n   {\n   mutable: { value: null, implementedInterface: function () {\n   return Kotlin.kotlin.reflect.KMutableProperty0 }\n   },\n   immutable: { value: null, implementedInterface: function () {\n   return Kotlin.kotlin.reflect.KProperty0

    }\n   }\n   },\n   {\n   mutable: { value: null, implementedInterface: function () {\n   return Kotlin.kotlin.reflect.KMutableProperty1 }\n   },\n   immutable: { value: null, implementedInterface: function () {\n   return Kotlin.kotlin.reflect.KProperty1 }\n   }\n   }];\n\nfunction getPropertyRefMetadata(cache) {\n   if (cache.value === null) {\n   cache.value = {\n   interfaces: [cache.implementedInterface()],\n   baseClass: null,\n   functions: {},\n   properties: {},\n   types: {},\n   staticMembers: {}\n   };\n   }\n   return cache.value;\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.toShort = function (a) {\n   return (a & 0xFFFF) << 16 >> 16;\n};\n\nKotlin.toByte = function (a) {\n

    return (a & 0xFF) << 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n   return a & 0xFFFF;\n};\n\nKotlin.numberToLong = function (a) {\n   return a instanceof Kotlin.Long ? a : Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt = function (a) {\n   return a instanceof Kotlin.Long ? a.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort = function (a) {\n   return Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n   return Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n   return +a;\n};\n\nKotlin.numberToChar = function (a) {\n   return Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n   if (a > 2147483647) return 2147483647;\n   if (a < -2147483648) return -2147483648;\n   return a | 0;\n};\n\nKotlin.toBoxedChar = function (a) {\n   if (a == null) return a;\n   if (a instanceof Kotlin.BoxedChar) return a;\n   return new

Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar
= function(a) {\n   if (a == null) return a;\n   return Kotlin.toChar(a);\n};\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.equals = function (obj1, obj2) {\n   if (obj1 == null) {\n   return obj2 == null;\n   }\n\n   if (obj2 == null) {\n   return false;\n   }\n\n   if (obj1 !== obj1) {\n   return obj2 !== obj2;\n   }\n\n   if (typeof obj1 === \"object\" && typeof obj1.equals === \"function\") {\n   return obj1.equals(obj2);\n   }\n\n   if (typeof obj1 === \"number\" && typeof obj2 === \"number\") {\n   return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 / obj2)\n   }\n\n   return obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n   if (obj == null) {\n   return 0;\n   }\n   var objType = typeof obj;\n   if (\"object\" === objType) {\n
    return \"function\" === typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\n   }\n   if (\"function\" === objType) {\n   return getObjectHashCode(obj);\n   }\n   if (\"number\" === objType) {\n   return Kotlin.numberHashCode(obj);\n   }\n   if (\"boolean\" === objType) {\n   return Number(obj)\n   }\n\n   var str = String(obj);\n   return getStringHashCode(str);\n};\n\n\nKotlin.toString = function (o) {\n   if (o == null) {\n   return \"null\";\n   }\n   else if (Kotlin.isArrayish(o)) {\n   return \"[...]\";\n   }\n   else {\n   return o.toString();\n   }\n};\n\n/** @const */\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to Symbol type once we are on ES6.\n/** @const */\nvar OBJECT_HASH_CODE_PROPERTY_NAME = \"kotlinHashCodeValue$\";\n\nfunction getObjectHashCode(obj) {\n   if (!(OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n   var hash = (Math.random() * POW_2_32) | 0; // Make 32-bit singed integer.\n   Object.defineProperty(obj,
OBJECT_HASH_CODE_PROPERTY_NAME, { value: hash, enumerable: false });\n   }\n   return obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n   var hash = 0;\n   for (var i = 0; i < str.length; i++) {\n   var code = str.charCodeAt(i);\n   hash = (hash * 31 + code) | 0; // Keep it 32-bit.\n   }\n   return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Copyright 2009 The Closure Library Authors. All Rights Reserved.\n//\n// Licensed under the Apache License, Version 2.0 (the \"License\");\n// you may not use this file except in compliance with the License.\n// You may obtain a copy of the License at\n//\n//   http://www.apache.org/licenses/LICENSE-2.0\n//\n// Unless required by applicable law
 or agreed to in writing, software\n// distributed under the License is distributed on an \"AS-IS\" BASIS,\n// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n\n/**\n * Constructs a 64-bit two's-complement integer, given its low and high 32-bit\n * values as *signed* integers. See the from* functions below for more\n * convenient ways of constructing Longs.\n *\n * The internal representation of a long is the two given signed, 32-bit values.\n * We use 32-bit pieces because these are the size of integers on which\n * Javascript performs bit-operations. For operations like addition and\n * multiplication, we split each number into 16-bit pieces, which can easily be\n * multiplied within Javascript's floating-point representation without overflow\n * or change in sign.\n *\n * In the algorithms below, we frequently reduce the negative case to the\n * positive case by negating the input(s) and then post-processing the result.\n * Note that we must ALWAYS check
 specially whether those values are MIN_VALUE\n * (-2^63) because -MIN_VALUE == MIN_VALUE (since 2^63 cannot be represented as\n * a positive number, it overflows back into a negative). Not handling this\n * case would often result in infinite recursion.\n *\n * @param {number} low The low (signed) 32 bits of the long.\n * @param {number} high The high (signed) 32 bits of the long.\n * @constructor\n * @final\n */\nKotlin.Long = function(low, high) {\n   /**\n   * @type {number}\n   * @private\n   */\n   this.low_ = low | 0; // force into 32 signed bits.\n\n   /**\n   * @type {number}\n   * @private\n   */\n   this.high_ = high | 0; // force into 32 signed bits.\n};\n\nKotlin.Long.$metadata$ = {\n   kind: \"class\",\n   simpleName: \"Long\",\n   interfaces:[]\n};\n\n\n// NOTE: Common constant values ZERO, ONE, NEG_ONE, etc. are defined below the\n// from* methods on which they depend.\n\n\n/**\n * A cache of the Long representations of small integer values.\n * @type {!Object}\n *
 @private\n

*/\nKotlin.Long.IntCache_ = {};\n\n/**\n * Returns a Long representing the given (32-bit) integer value.\n * @param {number} value The 32-bit integer in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromInt = function(value) {\n if (-128 <= value && value < 128) {\n   var cachedObj = Kotlin.Long.IntCache_[value];\n   if (cachedObj) {\n   return cachedObj;\n   }\n }\n\n var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\n if (-128 <= value && value < 128) {\n   Kotlin.Long.IntCache_[value] = obj;\n }\n return obj;\n};\n\n\n/**\n * Converts this number value to `Long`.\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`,\n * `Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.\n * @param {number} value The number in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromNumber

 = function(value) {\n if (isNaN(value)) {\n   return Kotlin.Long.ZERO;\n } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {\n   return Kotlin.Long.MIN_VALUE;\n } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {\n   return Kotlin.Long.MAX_VALUE;\n } else if (value < 0) {\n   return Kotlin.Long.fromNumber(-value).negate();\n } else {\n   return new Kotlin.Long(\n   (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,\n   (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);\n }\n};\n\n\n/**\n * Returns a Long representing the 64-bit integer that comes by concatenating\n * the given high and low bits. Each is assumed to use 32 bits.\n * @param {number} lowBits The low 32-bits.\n * @param {number} highBits The high 32-bits.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromBits = function(lowBits, highBits) {\n return new Kotlin.Long(lowBits, highBits);\n};\n\n\n/**\n * Returns a Long representation of the given string, written using the given\n *

 radix.\n * @param {string} str The textual representation of the Long.\n * @param {number=} opt_radix The radix in which the text is written.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromString = function(str, opt_radix) {\n if (str.length == 0) {\n   throw Error('number format error: empty string');\n }\n\n var radix = opt_radix || 10;\n if (radix < 2 || 36 < radix) {\n   throw Error('radix out of range: ' + radix);\n }\n\n if (str.charAt(0) == '-') {\n   return Kotlin.Long.fromString(str.substring(1), radix).negate();\n } else if (str.indexOf('-') >= 0) {\n   throw Error('number format error: interior \"-\" character: ' + str);\n }\n\n // Do several (8) digits each time through the loop, so as to\n // minimize the calls to the very expensive emulated div.\n var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 8));\n\n var result = Kotlin.Long.ZERO;\n for (var i = 0; i < str.length; i += 8) {\n   var size = Math.min(8, str.length

 - i);\n   var value = parseInt(str.substring(i, i + size), radix);\n   if (size < 8) {\n   var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n   result = result.multiply(power).add(Kotlin.Long.fromNumber(value));\n   } else {\n   result = result.multiply(radixToPower);\n   result = result.add(Kotlin.Long.fromNumber(value));\n   }\n }\n return result;\n};\n\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these variables, so there should be no runtime penalty for these.\n\n\n/**\n * Number used repeated below in calculations. This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_32_DBL_ =\n   Kotlin.Long.TWO_PWR_16_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n

 * @private\n */\nKotlin.Long.TWO_PWR_31_DBL_ =\n   Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_48_DBL_ =\n   Kotlin.Long.TWO_PWR_32_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_64_DBL_ =\n   Kotlin.Long.TWO_PWR_32_DBL_ * Kotlin.Long.TWO_PWR_32_DBL_;\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_63_DBL_ =\n   Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.NEG_ONE =

Kotlin.Long.fromInt(-1);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.MAX_VALUE =\n Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n/**\n * @type {!Kotlin.Long}\n * @private\n */\nKotlin.Long.TWO_PWR_24_

= Kotlin.Long.fromInt(1 << 24);\n\n\n/** @return {number} The value, assuming it is a 32-bit integer. */\nKotlin.Long.prototype.toInt = function() {\n return this.low_;\n};\n\n\n/** @return {number} The closest floating-point representation to this value. */\nKotlin.Long.prototype.toNumber = function() {\n return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\n this.getLowBitsUnsigned();\n};\n\n/** @return {number} The 32-bit hashCode of this value. */\nKotlin.Long.prototype.hashCode = function() {\n return this.high_ ^ this.low_;\n};\n\n/**\n * @param {number=} opt_radix The radix in which the text should be written.\n * @return {string} The textual representation of this value.\n * @override\n */\nKotlin.Long.prototype.toString = function(opt_radix) {\n var radix = opt_radix || 10;\n if (radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n }\n\n if (this.isZero()) {\n return '0';\n }\n\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE))

{\n // We need to change the Long value before it can be negated, so we remove\n // the bottom-most digit in this base and then recurse to do the rest.\n var radixLong = Kotlin.Long.fromNumber(radix);\n var div = this.div(radixLong);\n var rem = div.multiply(radixLong).subtract(this);\n return div.toString(radix) + rem.toInt().toString(radix);\n } else {\n return '-' + this.negate().toString(radix);\n }\n }\n\n // Do several (6) digits each time through the loop, so as to\n // minimize the calls to the very expensive emulated div.\n var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 6));\n\n var rem = this;\n var result = '';\n while (true) {\n var remDiv = rem.div(radixToPower);\n var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();\n var digits = intval.toString(radix);\n\n rem = remDiv;\n if (rem.isZero()) {\n return digits + result;\n } else {\n while (digits.length

< 6) {\n digits = '0' + digits;\n }\n result = '' + digits + result;\n }\n }\n};\n\n\n/** @return {number} The high 32-bits as a signed value. */\nKotlin.Long.prototype.getHighBits = function() {\n return this.high_;\n};\n\n\n/** @return {number} The low 32-bits as a signed value. */\nKotlin.Long.prototype.getLowBits = function() {\n return this.low_;\n};\n\n\n/** @return {number} The low 32-bits as an unsigned value. */\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\n return (this.low_ >= 0) ?\n this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};\n\n\n/**\n * @return {number} Returns the number of bits needed to represent the absolute\n * value of this Long.\n */\nKotlin.Long.prototype.getNumBitsAbs = function() {\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return 64;\n } else {\n return this.negate().getNumBitsAbs();\n }\n } else {\n var val = this.high_ != 0 ? this.high_

: this.low_;\n for (var bit = 31; bit > 0; bit--) {\n if ((val & (1 << bit)) != 0) {\n break;\n }\n }\n return this.high_ != 0 ? bit + 33 : bit + 1;\n }\n};\n\n\n/** @return {boolean} Whether this value is zero. */\nKotlin.Long.prototype.isZero = function() {\n return this.high_ == 0 && this.low_ == 0;\n};\n\n\n/** @return {boolean} Whether this value is negative. */\nKotlin.Long.prototype.isNegative = function() {\n return this.high_ < 0;\n};\n\n\n/** @return {boolean} Whether this value is odd. */\nKotlin.Long.prototype.isOdd = function() {\n return (this.low_ & 1) == 1;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long equals the other.\n */\nKotlin.Long.prototype.equalsLong = function(other) {\n return (this.high_ == other.high_) && (this.low_ == other.low_);\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long does not equal the other.\n */\nKotlin.Long.prototype.notEqualsLong = function(other) {\n return (this.high_ != other.high_) || (this.low_ != other.low_);\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than the other.\n */\nKotlin.Long.prototype.lessThan = function(other) {\n return this.compare(other) < 0;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than or equal to the other.\n */\nKotlin.Long.prototype.lessThanOrEqual = function(other) {\n return this.compare(other) <= 0;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to

compare against.\n * @return {boolean} Whether this Long is greater than the other.\n
*/\nKotlin.Long.prototype.greaterThan = function(other) {\n return this.compare(other) > 0;\n};\n\n\n/**\n *
@param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than or
equal to the other.\n */\nKotlin.Long.prototype.greaterThanOrEqual

= function(other) {\n return this.compare(other) >= 0;\n};\n\n\n/**\n * Compares this Long with the given one.\n *
@param {Kotlin.Long} other Long to compare against.\n * @return {number} 0 if they are the same, 1 if the this is
greater, and -1\n * if the given one is greater.\n */\nKotlin.Long.prototype.compare = function(other) {\n if
(this.equalsLong(other)) {\n return 0;\n }\n\n var thisNeg = this.isNegative();\n var otherNeg =
other.isNegative();\n if (thisNeg && !otherNeg) {\n return -1;\n }\n if (!thisNeg && otherNeg) {\n return 1;\n
}\n\n // at this point, the signs are the same, so subtraction will not overflow\n if (this.subtract(other).isNegative())
{\n return -1;\n } else {\n return 1;\n }\n};\n\n\n/** @return {!Kotlin.Long} The negation of this value.
*/\nKotlin.Long.prototype.negate = function() {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return
Kotlin.Long.MIN_VALUE;\n } else {\n return this.not().add(Kotlin.Long.ONE);\n

}\n};\n\n\n/**\n * Returns the sum of this and the given Long.\n * @param {Kotlin.Long} other Long to add to
this one.\n * @return {!Kotlin.Long} The sum of this and the given Long.\n */\nKotlin.Long.prototype.add =
function(other) {\n // Divide each number into 4 chunks of 16 bits, and then sum the chunks.\n\n var a48 =
this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 = this.low_ >>> 16;\n var a00 = this.low_ &
0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n var b16 = other.low_ >>> 16;\n
var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00 += a00 + b00;\n c16 += c00
>>> 16;\n c00 &= 0xFFFF;\n c16 += a16 + b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 + b32;\n
c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 + b48;\n c48 &= 0xFFFF;\n return
Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n/**\n * Returns the difference of this and the
given Long.\n * @param {Kotlin.Long} other Long to subtract from this.\n * @return {!Kotlin.Long} The
difference of this and the given Long.\n */\nKotlin.Long.prototype.subtract = function(other) {\n return
this.add(other.negate());\n};\n\n\n/**\n * Returns the product of this and the given long.\n * @param {Kotlin.Long}
other Long to multiply with this.\n * @return {!Kotlin.Long} The product of this and the other.\n
*/\nKotlin.Long.prototype.multiply = function(other) {\n if (this.isZero()) {\n return Kotlin.Long.ZERO;\n } else
if (other.isZero()) {\n return Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n
return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n } else if
(other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return this.isOdd() ? Kotlin.Long.MIN_VALUE :
Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n if (other.isNegative()) {\n return
this.negate().multiply(other.negate());\n } else {\n return this.negate().multiply(other).negate();\n
}\n } else if (other.isNegative()) {\n return this.multiply(other.negate()).negate();\n }\n\n // If both longs are
small, use float multiplication\n if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\n
other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n return Kotlin.Long.fromNumber(this.toNumber() *
other.toNumber());\n }\n\n // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\n // We can
skip products that would overflow.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 =
this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ &
0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00
= 0;\n c00 += a00 * b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 * b00;\n c32 += c16 >>> 16;\n
c16 &= 0xFFFF;\n c16 += a00 * b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 +=
a32 * b00;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c32 += a16 * b16;\n c48 += c32 >>> 16;\n c32 &=
0xFFFF;\n c32 += a00 * b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 * b00 + a32 * b16 + a16 *
b32 + a00 * b48;\n c48 &= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) |
c32);\n};\n\n\n/**\n * Returns this Long divided by the given one.\n * @param {Kotlin.Long} other Long by which
to divide.\n * @return {!Kotlin.Long} This Long divided by the given one.\n */\nKotlin.Long.prototype.div =
function(other) {\n if (other.isZero()) {\n throw Error('division by zero');\n } else if (this.isZero()) {\n return
Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n if

(other.equalsLong(Kotlin.Long.ONE) ||\n   other.equalsLong(Kotlin.Long.NEG_ONE)) {\n   return Kotlin.Long.MIN_VALUE; // recall that -MIN_VALUE == MIN_VALUE\n   } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n   return Kotlin.Long.ONE;\n
 } else {\n   // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.\n   var halfThis = this.shiftRight(1);\n   var approx = halfThis.div(other).shiftLeft(1);\n   if (approx.equalsLong(Kotlin.Long.ZERO)) {\n   return other.isNegative() ? Kotlin.Long.ONE : Kotlin.Long.NEG_ONE;\n   } else {\n   var rem = this.subtract(other.multiply(approx));\n   var result = approx.add(rem.div(other));\n   return result;\n   }\n   }\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n   return Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n   if (other.isNegative()) {\n   return this.negate().div(other.negate());\n   } else {\n   return this.negate().div(other).negate();\n   }\n } else if (other.isNegative()) {\n   return this.div(other.negate()).negate();\n }\n\n // Repeat the following until the remainder is less than other: find a\n // floating-point that approximates remainder / other *from below*, add this\n // into
 the result, and subtract it from the remainder. It is critical that\n // the approximate value is less than or equal to the real value so that the\n // remainder never becomes negative.\n var res = Kotlin.Long.ZERO;\n var rem = this;\n while (rem.greaterThanOrEqual(other)) {\n   // Approximate the result of division. This may be a little greater or\n   // smaller than the actual value.\n   var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\n\n   // We will tweak the approximate result by changing it in the 48-th digit or\n   // the smallest non-fractional digit, whichever is larger.\n   var log2 = Math.ceil(Math.log(approx) / Math.LN2);\n   var delta = (log2 <= 48) ? 1 : Math.pow(2, log2 - 48);\n\n   // Decrease the approximation until it is smaller than the remainder. Note\n   // that if it is too large, the product overflows and is negative.\n   var approxRes = Kotlin.Long.fromNumber(approx);\n   var approxRem = approxRes.multiply(other);\n
  while (approxRem.isNegative() || approxRem.greaterThan(rem)) {\n   approx -= delta;\n   approxRes = Kotlin.Long.fromNumber(approx);\n   approxRem = approxRes.multiply(other);\n   }\n\n   // We know the answer can't be zero... and actually, zero would cause\n   // infinite recursion since we would make no progress.\n   if (approxRes.isZero()) {\n   approxRes = Kotlin.Long.ONE;\n   }\n\n   res = res.add(approxRes);\n   rem = rem.subtract(approxRem);\n }\n return res;\n};\n\n\n/**\n * Returns this Long modulo the given one.\n * @param {Kotlin.Long} other Long by which to mod.\n * @return {!Kotlin.Long} This Long modulo the given one.\n */\nKotlin.Long.prototype.modulo = function(other) {\n return this.subtract(this.div(other).multiply(other));\n};\n\n\n/** @return {!Kotlin.Long} The bitwise-NOT of this value. */\nKotlin.Long.prototype.not = function() {\n return Kotlin.Long.fromBits(~this.low_, ~this.high_);\n};\n\n\n/**\n * Returns the bitwise-AND of this Long and
 the given one.\n * @param {Kotlin.Long} other The Long with which to AND.\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\n */\nKotlin.Long.prototype.and = function(other) {\n return Kotlin.Long.fromBits(this.low_ & other.low_,\n   this.high_ & other.high_);\n};\n\n\n/**\n * Returns the bitwise-OR of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to OR.\n * @return {!Kotlin.Long} The bitwise-OR of this and the other.\n */\nKotlin.Long.prototype.or = function(other) {\n return Kotlin.Long.fromBits(this.low_ | other.low_,\n   this.high_ | other.high_);\n};\n\n\n/**\n * Returns the bitwise-XOR of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to XOR.\n * @return {!Kotlin.Long} The bitwise-XOR of this and the other.\n */\nKotlin.Long.prototype.xor = function(other) {\n return Kotlin.Long.fromBits(this.low_ ^ other.low_,\n

      this.high_ ^ other.high_);\n};\n\n\n/**\n * Returns this Long with bits shifted to the left by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\n */\nKotlin.Long.prototype.shiftLeft = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n   return this;\n } else {\n   var low = this.low_;\n   if (numBits < 32) {\n   var high = this.high_;\n   return Kotlin.Long.fromBits(\n   low << numBits,\n   (high << numBits) | (low >>> (32 - numBits)));\n   } else {\n   return Kotlin.Long.fromBits(0, low << (numBits - 32));\n   }\n }\n};\n\n\n/**\n *

Returns this Long with bits shifted to the right by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount.\n */\nKotlin.Long.prototype.shiftRight = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n   return this;\n } else {\n   var high = this.high_;\n   if (numBits < 32) {\n   var low = this.low_;\n   return Kotlin.Long.fromBits(\n   (low >>> numBits) | (high << (32 - numBits)),\n   high >> numBits);\n   } else {\n   return Kotlin.Long.fromBits(\n   high >> (numBits - 32),\n   high >= 0 ? 0 : -1);\n   }\n }\n};\n\n\n/**\n * Returns this Long with bits shifted to the right by the given amount, with\n * zeros placed into the new leading bits.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\n *   zeros placed into the new leading bits.\n */\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n   return this;\n } else {\n   var high = this.high_;\n   if (numBits < 32) {\n   var low = this.low_;\n   return Kotlin.Long.fromBits(\n   (low >>> numBits) | (high << (32 - numBits)),\n   high >>> numBits);\n   } else if (numBits == 32) {\n   return Kotlin.Long.fromBits(high, 0);\n   } else {\n   return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\n   }\n }\n};\n\n// Support for Kotlin\nKotlin.Long.prototype.equals = function (other) {\n   return other instanceof Kotlin.Long && this.equalsLong(other);\n};\n\nKotlin.Long.prototype.compareTo_11rb$ = Kotlin.Long.prototype.compare;\n\nKotlin.Long.prototype.inc = function() {\n   return this.add(Kotlin.Long.ONE);\n};\n\nKotlin.Long.prototype.dec = function() {\n   return this.add(Kotlin.Long.NEG_ONE);\n};\n\nKotlin.Long.prototype.valueOf = function() {\n   return this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n   return this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\nKotlin.Long.prototype.inv = Kotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n   return new Kotlin.kotlin.ranges.LongRange(this, other);\n};","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/**\n * @param {string} id\n * @param {Object} declaration\n */\nKotlin.defineModule = function (id, declaration) {\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n   return fun;\n};\n\nKotlin.wrapFunction = function(fun) {\n   var f = function() {\n   f = fun();\n   return f.apply(this, arguments);\n   };\n   return function() {\n   return f.apply(this, arguments);\n   };\n};\n\nKotlin.isTypeOf = function(type) {\n   return function (object) {\n   return typeof object === type;\n   }\n};\n\nKotlin.isInstanceOf = function (klass) {\n   return function (object) {\n   return Kotlin.isType(object, klass);\n   }\n};\n\nKotlin.orNull = function (fn) {\n   return function (object) {\n   return object == null || fn(object);\n   }\n};\n\nKotlin.andPredicate = function (a, b) {\n   return function (object) {\n   return a(object) && b(object);\n   }\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion, moduleName, data) {\n};\n\nKotlin.suspendCall = function(value) {\n   return value;\n};\n\nKotlin.coroutineResult = function(qualifier) {\n   throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n   throwMarkerError();\n};\n\nKotlin.coroutineReceiver = function(qualifier) {\n   throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n   throwMarkerError();\n};\n\nKotlin.getReifiedTypeParameterKType = function(typeParameter) {\n   throwMarkerError();\n};\n\nfunction throwMarkerError() {\n   throw new Error(\n   \"This marker function should never been called. \" +\n   \"Looks like compiler did not eliminate it properly. \" +\n   \"Please, report an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function(id, defaultValue) {\n   return function() {\n   return defaultValue;\n   }\n};","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.compareTo = function (a, b) {\n   var typeA = typeof a;\n   if (typeA === \"number\") {\n   if (typeof b === \"number\") {\n   return Kotlin.doubleCompareTo(a, b);\n   }\n   return Kotlin.primitiveCompareTo(a, b);\n   }\n   if (typeA === \"string\" || typeA === \"boolean\") {\n   return Kotlin.primitiveCompareTo(a, b);\n   }\n   return

a.compareTo_11rb$(b);\n};\n\nKotlin.primitiveCompareTo = function (a, b) {\n   return a < b ? -1 : a > b ? 1 : 0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n   if (a < b) return -1;\n   if (a > b) return 1;\n\n   if (a === b) {\n   if (a !== 0) return 0;\n\n   var ia = 1 / a;\n

    return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n   }\n\n   return a !== a ? (b !== b ? 0 : 1) : -1\n};\n\nKotlin.charInc = function (value) {\n   return Kotlin.toChar(value+1);\n};\n\nKotlin.charDec = function (value) {\n   return Kotlin.toChar(value-1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a, b) {\n   return ((a & 0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\n(function() {\n   var buf = new ArrayBuffer(8);\n   var bufFloat64 = new Float64Array(buf);\n   var bufFloat32 = new Float32Array(buf);\n   var bufInt32 = new Int32Array(buf);\n   var lowIndex = 0;\n   var highIndex = 1;\n\n   bufFloat64[0] = -1; // bff00000_00000000\n   if (bufInt32[lowIndex] !== 0) {\n   lowIndex = 1;\n   highIndex = 0;\n   }\n\n   Kotlin.doubleToBits = function(value) {\n   return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n   };\n\n   Kotlin.doubleToRawBits = function(value) {\n   bufFloat64[0]

 = value;\n   return Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n   };\n\n   Kotlin.doubleFromBits = function(value) {\n   bufInt32[lowIndex] = value.low_;\n   bufInt32[highIndex] = value.high_;\n   return bufFloat64[0];\n   };\n\n   Kotlin.floatToBits = function(value) {\n   return Kotlin.floatToRawBits(isNaN(value) ? NaN : value);\n   };\n\n   Kotlin.floatToRawBits = function(value) {\n   bufFloat32[0] = value;\n   return bufInt32[0];\n   };\n\n   Kotlin.floatFromBits = function(value) {\n   bufInt32[0] = value;\n   return bufFloat32[0];\n   };\n\n   // returns zero value for number with positive sign bit and non-zero value for number with negative sign bit.\n   Kotlin.doubleSignBit = function(value) {\n   bufFloat64[0] = value;\n   return bufInt32[highIndex] & 0x80000000;\n   };\n\n   Kotlin.numberHashCode = function(obj) {\n   if ((obj | 0) === obj) {\n   return obj | 0;\n

    }\n   else {\n   bufFloat64[0] = obj;\n   return (bufInt32[highIndex] * 31 | 0) + bufInt32[lowIndex] | 0;\n   }\n   }\n})();\n\nKotlin.ensureNotNull = function(x) {\n   return x != null ? x : Kotlin.throwNPE();\n};\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nif (typeof String.prototype.startsWith === \"undefined\") {\n   Object.defineProperty(String.prototype, \"startsWith\", {\n   value: function (searchString, position) {\n   position = position || 0;\n   return this.lastIndexOf(searchString, position) === position;\n   }\n   });\n}\nif (typeof String.prototype.endsWith === \"undefined\") {\n   Object.defineProperty(String.prototype, \"endsWith\", {\n   value: function (searchString, position) {\n   var subjectString = this.toString();\n

        if (position === undefined || position > subjectString.length) {\n   position = subjectString.length;\n   }\n   position -= searchString.length;\n   var lastIndex = subjectString.indexOf(searchString, position);\n   return lastIndex !== -1 && lastIndex === position;\n   }\n   });\n}\n// ES6 Math polyfills\nif (typeof Math.sign === \"undefined\") {\n   Math.sign = function(x) {\n   x = +x; // convert to a number\n   if (x === 0 || isNaN(x)) {\n   return Number(x);\n   }\n   return x > 0 ? 1 : -1;\n   };\n}\nif (typeof Math.trunc === \"undefined\") {\n   Math.trunc = function(x) {\n   if (isNaN(x)) {\n   return NaN;\n   }\n   if (x > 0) {\n   return Math.floor(x);\n   }\n   return Math.ceil(x);\n   };\n}\n\n(function() {\n   var epsilon = 2.220446049250313E-16;\n   var taylor_2_bound = Math.sqrt(epsilon);\n   var taylor_n_bound = Math.sqrt(taylor_2_bound);\n

    var upper_taylor_2_bound = 1/taylor_2_bound;\n   var upper_taylor_n_bound = 1/taylor_n_bound;\n\n   if (typeof Math.sinh === \"undefined\") {\n   Math.sinh = function(x) {\n   if (Math.abs(x) < taylor_n_bound) {\n   var result = x;\n   if (Math.abs(x) > taylor_2_bound) {\n   result += (x * x * x) / 6;\n   }\n   return result;\n   } else {\n   var y = Math.exp(x);\n   var y1 = 1 / y;\n   if (!isFinite(y)) return Math.exp(x - Math.LN2);\n   if (!isFinite(y1)) return -Math.exp(-x - Math.LN2);\n   return (y - y1) / 2;\n   }\n   };\n   }\n   if (typeof Math.cosh === \"undefined\") {\n   Math.cosh = function(x) {\n   var y = Math.exp(x);\n   var y1 = 1 / y;\n   if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) - Math.LN2);\n   return (y + y1) / 2;\n

```
};\n    }\n\n    if (typeof Math.tanh === \"undefined\") {\n        Math.tanh = function(x){\n            if
(Math.abs(x) < taylor_n_bound) {\n            var result = x;\n            if (Math.abs(x) > taylor_2_bound) {\n
        result -= (x * x * x) / 3;\n            }\n            return result;\n        }\n        else {\n            var a =
Math.exp(+x), b = Math.exp(-x);\n            return a === Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n
    }\n        };\n    }\n\n    // Inverse hyperbolic function implementations derived from boost special math functions,\n
// Copyright Eric Ford & Hubert Holin 2001.\n\n    if (typeof Math.asinh === \"undefined\") {\n        var asinh =
function(x) {\n            if (x >= +taylor_n_bound)\n            {\n                if (x > upper_taylor_n_bound)\n
{\n                    if (x > upper_taylor_2_bound)\n                    {\n                        //
approximation by laurent series in 1/x at 0+ order from -1 to 0\n                        return Math.log(x) + Math.LN2;\n
    }\n                    else\n                    {\n                        // approximation by laurent series in 1/x at 0+ order
from -1 to 1\n                        return Math.log(x * 2 + (1 / (x * 2)));\n                    }\n                }\n                else\n
    {\n                    return Math.log(x + Math.sqrt(x * x + 1));\n                }\n            }\n            else if (x <= -
taylor_n_bound)\n            {\n                return -asinh(-x);\n            }\n            else\n            {\n                //
approximation by taylor series in x at 0 up to order 2\n                var result = x;\n                if (Math.abs(x) >=
taylor_2_bound)\n                {\n                    var x3 = x * x * x;\n                    // approximation by taylor series in x at
0 up to order 4\n                    result
 -= x3 / 6;\n                }\n                return result;\n            }\n        };\n        Math.asinh = asinh;\n    }\n    if (typeof
Math.acosh === \"undefined\") {\n        Math.acosh = function(x) {\n            if (x < 1)\n            {\n                return
NaN;\n            }\n            else if (x - 1 >= taylor_n_bound)\n            {\n                if (x > upper_taylor_2_bound)\n
    {\n                    // approximation by laurent series in 1/x at 0+ order from -1 to 0\n                    return
Math.log(x) + Math.LN2;\n                }\n                else\n                {\n                    return Math.log(x + Math.sqrt(x *
x - 1));\n                }\n            }\n            else\n            {\n                var y = Math.sqrt(x - 1);\n                //
approximation by taylor series in y at 0 up to order 2\n                var result = y;\n                if (y >=
taylor_2_bound)\n                {\n                    var y3 = y * y *
y;\n                    // approximation by taylor series in y at 0 up to order 4\n                    result -= y3 / 12;\n
}\n\n                return Math.sqrt(2) * result;\n            }\n        };\n    }\n    if (typeof Math.atanh === \"undefined\")
{\n        Math.atanh = function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var result = x;\n
if (Math.abs(x) > taylor_2_bound) {\n                    result += (x * x * x) / 3;\n                }\n                return result;\n
    }\n            return Math.log((1 + x) / (1 - x)) / 2;\n        };\n    }\n    if (typeof Math.log1p === \"undefined\") {\n
Math.log1p = function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var x2 = x * x;\n
var x3 = x2 * x;\n                var x4 = x3 * x;\n                // approximation by taylor series in x at 0 up to order 4\n
    return (-x4 / 4 + x3 / 3 - x2 / 2 + x);\n
    }\n            return Math.log(x + 1);\n        };\n    }\n    if (typeof Math.expm1 === \"undefined\") {\n
Math.expm1 = function(x) {\n            if (Math.abs(x) < taylor_n_bound) {\n                var x2 = x * x;\n                var
x3 = x2 * x;\n                var x4 = x3 * x;\n                // approximation by taylor series in x at 0 up to order 4\n
    return (x4 / 24 + x3 / 6 + x2 / 2 + x);\n            }\n            return Math.exp(x) - 1;\n        };\n    }\n})();\nif (typeof
Math.hypot === \"undefined\") {\n    Math.hypot = function() {\n        var y = 0;\n        var length =
arguments.length;\n\n        for (var i = 0; i < length; i++) {\n            if (arguments[i] === Infinity || arguments[i] ===
-Infinity) {\n                return Infinity;\n            }\n            y += arguments[i] * arguments[i];\n        }\n        return
Math.sqrt(y);\n    };\n}\nif (typeof Math.log10 === \"undefined\") {\n    Math.log10 = function(x) {\n
 return Math.log(x) * Math.LOG10E;\n    };\n}\nif (typeof Math.log2 === \"undefined\") {\n    Math.log2 =
function(x) {\n        return Math.log(x) * Math.LOG2E;\n    };\n}\nif (typeof Math.clz32 === \"undefined\") {\n
Math.clz32 = (function(log, LN2) {\n        return function(x) {\n            var asUint = x >>> 0;\n            if (asUint
=== 0) {\n                return 32;\n            }\n            return 31 - (log(asUint) / LN2 | 0) | 0; // the \"| 0\" acts like
math.floor\n        };\n    })(Math.log, Math.LN2);\n}\n\n// For HtmlUnit and PhantomJs\nif (typeof
ArrayBuffer.isView === \"undefined\") {\n    ArrayBuffer.isView = function(a) {\n        return a != null &&
a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\n    };\n}\n\nif (typeof
Array.prototype.fill === \"undefined\") {\n    // Polyfill from https://developer.mozilla.org/en-
```

US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n   Object.defineProperty(Array.prototype, 'fill', {\n   value: function (value) {\n\n   // Steps 1-2.\n   if (this == null) {\n   throw new TypeError('this is null or not defined');\n   }\n\n   var O = Object(this);\n\n   // Steps 3-5.\n   var len = O.length >>> 0;\n\n   // Steps 6-7.\n   var start = arguments[1];\n   var relativeStart = start >> 0;\n\n   // Step 8.\n   var k = relativeStart < 0 ?\n   Math.max(len + relativeStart, 0) :\n   Math.min(relativeStart, len);\n\n   // Steps 9-10.\n   var end = arguments[2];\n   var relativeEnd = end === undefined ?\n   len : end >> 0;\n\n   // Step 11.\n   var finalValue = relativeEnd < 0 ?\n   Math.max(len + relativeEnd, 0) :\n   Math.min(relativeEnd, len);\n\n   // Step 12.\n   while (k < finalValue)

 {\n   O[k] = value;\n   k++;\n   }\n\n   // Step 13.\n   return O;\n   }\n });\n}\n\n(function() {\n   function normalizeOffset(offset, length) {\n   if (offset < 0) return Math.max(0, offset + length);\n   return Math.min(offset, length);\n   }\n   function typedArraySlice(begin, end) {\n   if (typeof end === \"undefined\") {\n   end = this.length;\n   }\n   begin = normalizeOffset(begin || 0, this.length);\n   end = Math.max(begin, normalizeOffset(end, this.length));\n   return new this.constructor(this.subarray(begin, end));\n   }\n\n   var arrays = [Int8Array, Int16Array, Uint16Array, Int32Array, Float32Array, Float64Array];\n   for (var i = 0; i < arrays.length; ++i) {\n   var TypedArray = arrays[i];\n   if (typeof TypedArray.prototype.fill === \"undefined\") {\n   Object.defineProperty(TypedArray.prototype, 'fill', {\n   value: Array.prototype.fill\n   });\n   }\n   if (typeof TypedArray.prototype.slice === \"undefined\") {\n   Object.defineProperty(TypedArray.prototype, 'slice', {\n   value: typedArraySlice\n   });\n   }\n   }\n\n   // Patch apply to work with TypedArrays if needed.\n   try {\n   (function() {}).apply(null, new Int32Array(0))\n   } catch (e) {\n   var apply = Function.prototype.apply;\n   Object.defineProperty(Function.prototype, 'apply', {\n   value: function(self, array) {\n   return apply.call(this, self, [].slice.call(array));\n   }\n   });\n   }\n\n\n   // Patch map to work with TypedArrays if needed.\n   for (var i = 0; i < arrays.length; ++i) {\n   var TypedArray = arrays[i];\n   if (typeof TypedArray.prototype.map === \"undefined\") {\n   Object.defineProperty(TypedArray.prototype, 'map', {\n   value: function(callback, self) {\n
    return [].slice.call(this).map(callback, self);\n   }\n   });\n   }\n   }\n\n   // Patch sort to work with TypedArrays if needed.\n   // TODO: consider to remove following function and replace it with `Kotlin.doubleCompareTo` (see misc.js)\n   var totalOrderComparator = function (a, b) {\n   if (a < b) return -1;\n   if (a > b) return 1;\n\n   if (a === b) {\n   if (a !== 0) return 0;\n\n   var ia = 1 / a;\n   return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n   }\n\n   return a !== a ? (b !== b ? 0 : 1) : -1\n   };\n   for (var i = 0; i < arrays.length; ++i) {\n   var TypedArray = arrays[i];\n   if (typeof TypedArray.prototype.sort === \"undefined\") {\n   Object.defineProperty(TypedArray.prototype, 'sort', {\n   value: function(compareFunction) {\n   return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\n   }\n
        });\n   }\n   }\n})();\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.Kind = {\n   CLASS: \"class\",\n   INTERFACE: \"interface\",\n   OBJECT: \"object\"\n};\n\nKotlin.callGetter = function (thisObject, klass, propertyName) {\n   var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\n   if (propertyDescriptor != null && propertyDescriptor.get != null) {\n   return propertyDescriptor.get.call(thisObject);\n   }\n\n   propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\n   if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\n   return thisObject[propertyName];\n   }\n\n   return Kotlin.callGetter(thisObject, Object.getPrototypeOf(klass), propertyName);\n};\n\nKotlin.callSetter = function (thisObject, klass,

 propertyName, value) {\n   var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\n   if (propertyDescriptor != null && propertyDescriptor.set != null) {\n   propertyDescriptor.set.call(thisObject,

value);\n   return;\n   }\n\n   propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\n   if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\n   thisObject[propertyName] = value;\n   return\n   }\n\n   Kotlin.callSetter(thisObject, Object.getPrototypeOf(klass), propertyName, value);\n};\n\nfunction isInheritanceFromInterface(ctor, iface) {\n   if (ctor === iface) return true;\n\n   var metadata = ctor.$metadata$;\n   if (metadata != null) {\n   var interfaces = metadata.interfaces;\n   for (var i = 0; i < interfaces.length; i++) {\n   if (isInheritanceFromInterface(interfaces[i], iface)) {\n   return true;\n   }\n   }\n   }\n\n   var superPrototype

 = ctor.prototype != null ? Object.getPrototypeOf(ctor.prototype) : null;\n   var superConstructor = superPrototype != null ? superPrototype.constructor : null;\n   return superConstructor != null && isInheritanceFromInterface(superConstructor, iface);\n}\n\n/**\n *\n * @param {*} object\n * @param {Function|Object} klass\n * @returns {Boolean}\n */\nKotlin.isType = function (object, klass) {\n   if (klass === Object) {\n   switch (typeof object) {\n   case \"string\":\n   case \"number\":\n   case \"boolean\":\n   case \"function\":\n   return true;\n   default:\n   return object instanceof Object;\n   }\n   }\n\n   if (object == null || klass == null || (typeof object !== 'object' && typeof object !== 'function')) {\n   return false;\n   }\n\n   if (typeof klass === \"function\" && object instanceof klass) {\n   return true;\n   }\n\n   var proto = Object.getPrototypeOf(klass);\n

  var constructor = proto != null ? proto.constructor : null;\n   if (constructor != null && \"$metadata$\" in constructor) {\n   var metadata = constructor.$metadata$;\n   if (metadata.kind === Kotlin.Kind.OBJECT) {\n   return object === klass;\n   }\n   }\n\n   var klassMetadata = klass.$metadata$;\n\n   // In WebKit (JavaScriptCore) for some interfaces from DOM typeof returns \"object\", nevertheless they can be used in RHS of instanceof\n   if (klassMetadata == null) {\n   return object instanceof klass;\n   }\n\n   if (klassMetadata.kind === Kotlin.Kind.INTERFACE && object.constructor != null) {\n   return isInheritanceFromInterface(object.constructor, klass);\n   }\n\n   return false;\n};\n\nKotlin.isNumber = function (a) {\n   return typeof a == \"number\" || a instanceof Kotlin.Long;\n};\n\nKotlin.isChar = function (value) {\n   return value instanceof Kotlin.BoxedChar\n};\n\nKotlin.isComparable = function (value) {\n   var type = typeof

 value;\n\n   return type === \"string\" ||\n   type === \"boolean\" ||\n   Kotlin.isNumber(value) ||\n   Kotlin.isType(value, Kotlin.kotlin.Comparable);\n};\n\nKotlin.isCharSequence = function (value) {\n   return typeof value === \"string\" || Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\n@PublishedApi\nexternal internal fun <T> Array(size: Int): Array<T>\n\n@JsName(\"newArray\")\nfun <T> newArray(size: Int, initValue: T) = fillArrayVal(Array<T>(size), initValue)\n\n@JsName(\"newArrayF\")\ninline fun <T> arrayWithFun(size: Int, init: (Int) -> T) = fillArrayFun(Array<T>(size), init)\n\n@JsName(\"fillArray\")\ninline fun <T> fillArrayFun(array: Array<T>, init: (Int)

 -> T): Array<T> {\n   for (i in 0..array.size - 1) {\n   array[i] = init(i)\n   }\n   return array\n}\n\n@JsName(\"booleanArray\")\nfun booleanArray(size: Int, init: dynamic): Array<Boolean> {\n   val result: dynamic = Array<Boolean>(size)\n   result.`$type$` = \"BooleanArray\"\n   return when (init) {\n   null, true -> fillArrayVal(result, false)\n   false -> result\n   else -> fillArrayFun<Boolean>(result, init)\n   }\n}\n\n@JsName(\"booleanArrayF\")\ninline fun booleanArrayWithFun(size: Int, init: (Int) -> Boolean): Array<Boolean> = fillArrayFun(booleanArray(size, false), init)\n\n@JsName(\"charArray\")\n@Suppress(\"UNUSED_PARAMETER\")\nfun charArray(size: Int, init: dynamic): Array<Char> {\n   val result = js(\"new Uint16Array(size)\")\n   result.`$type$` = \"CharArray\"\n   return when (init) {\n   null, true, false -> result // For consistency\n   else -> fillArrayFun<Char>(result, init)\n   }\n}\n\n@JsName(\"charArrayF\")\ninline fun charArrayWithFun(size:

 Int, init: (Int) -> Char): Array<Char> {\n   val array = charArray(size, null)\n   for (i in 0..array.size - 1) {\n   @Suppress(\"UNUSED_VARIABLE\") // used in js block\n   val value = init(i)\n   js(\"array[i] = value;\")\n

}\n return array\n}\n\n@JsName(\"untypedCharArrayF\")\ninline fun untypedCharArrayWithFun(size: Int, init: (Int) -> Char): Array<Char> {\n val array = Array<Char>(size)\n for (i in 0..array.size - 1) {\n   @Suppress(\"UNUSED_VARIABLE\") // used in js block\n   val value = init(i)\n   js(\"array[i] = value;\")\n }\n return array\n}\n\n@JsName(\"longArray\")\nfun longArray(size: Int, init: dynamic): Array<Long> {\n val result: dynamic = Array<Long>(size)\n result.`$type$` = \"LongArray\"\n return when (init) {\n   null, true -> fillArrayVal(result, 0L)\n   false -> result\n   else -> fillArrayFun<Long>(result, init)\n }\n}\n\n@JsName(\"longArrayF\")\ninline fun longArrayWithFun(size: Int, init: (Int) -> Long): Array<Long> = fillArrayFun(longArray(size, false), init)\n\nprivate fun <T> fillArrayVal(array: Array<T>, initValue: T): Array<T> {\n for (i in 0..array.size - 1) {\n   array[i] = initValue\n }\n return array\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\npublic class Enum<T : Enum<T>> : Comparable<Enum<T>> {\n @JsName(\"name$\") private var _name: String = \"\"\n @JsName(\"ordinal$\") private var _ordinal: Int = 0\n\n val name: String\n   get() = _name\n\n val ordinal: Int\n   get() = _ordinal\n\n override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)\n\n override fun equals(other: Any?) = this === other\n\n override fun hashCode(): Int = js(\"Kotlin.identityHashCode\")(this)\n\n override fun toString() = name\n\n companion object\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js.internal\n\n@JsName(\"DoubleCompanionObject\")\ninternal object DoubleCompanionObject {\n @JsName(\"MIN_VALUE\")\n const val MIN_VALUE: Double = 4.9E-324\n\n @JsName(\"MAX_VALUE\")\n const val MAX_VALUE: Double = 1.7976931348623157E308\n\n @JsName(\"POSITIVE_INFINITY\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val POSITIVE_INFINITY: Double = 1.0 / 0.0\n\n @JsName(\"NEGATIVE_INFINITY\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val NEGATIVE_INFINITY: Double = -1.0 / 0.0\n\n @JsName(\"NaN\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val NaN: Double = -(0.0 / 0.0)\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 8\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 64\n}\n\n@JsName(\"FloatCompanionObject\")\ninternal object FloatCompanionObject {\n @JsName(\"MIN_VALUE\")\n const val MIN_VALUE: Float = 1.4E-45F\n\n @JsName(\"MAX_VALUE\")\n const val MAX_VALUE: Float = 3.4028235E38F\n\n @JsName(\"POSITIVE_INFINITY\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val POSITIVE_INFINITY: Float = 1.0F / 0.0F\n\n @JsName(\"NEGATIVE_INFINITY\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val NEGATIVE_INFINITY: Float = -1.0F / 0.0F\n\n @JsName(\"NaN\")\n @Suppress(\"DIVISION_BY_ZERO\")\n const val NaN: Float = -(0.0F / 0.0F)\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 4\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 32\n}\n\n@JsName(\"IntCompanionObject\")\ninternal object IntCompanionObject {\n @JsName(\"MIN_VALUE\")\n val MIN_VALUE: Int = -2147483647 - 1\n\n @JsName(\"MAX_VALUE\")\n val MAX_VALUE: Int = 2147483647\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 4\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 32\n}\n\n@JsName(\"LongCompanionObject\")\ninternal object LongCompanionObject {\n @JsName(\"MIN_VALUE\")\n val MIN_VALUE: Long = js(\"Kotlin.Long.MIN_VALUE\")\n\n @JsName(\"MAX_VALUE\")\n val MAX_VALUE: Long = js(\"Kotlin.Long.MAX_VALUE\")\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 8\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 64\n}\n\n@JsName(\"ShortCompanionObject\")\ninternal object ShortCompanionObject {\n @JsName(\"MIN_VALUE\")\n val MIN_VALUE: Short = -32768\n\n @JsName(\"MAX_VALUE\")\n val MAX_VALUE: Short = 32767\n\n @JsName(\"SIZE_BYTES\")\n const val SIZE_BYTES = 2\n\n @JsName(\"SIZE_BITS\")\n const val SIZE_BITS = 16\n}\n\n@JsName(\"ByteCompanionObject\")\ninternal object ByteCompanionObject {\n

@JsName(\"MIN_VALUE\")\n   val MIN_VALUE: Byte = -128\n\n   @JsName(\"MAX_VALUE\")\n   val MAX_VALUE: Byte = 127\n\n   @JsName(\"SIZE_BYTES\")\n   const val SIZE_BYTES = 1\n\n   @JsName(\"SIZE_BITS\")\n   const val SIZE_BITS = 8\n}\n\n@JsName(\"CharCompanionObject\")\ninternal object CharCompanionObject {\n   @JsName(\"MIN_VALUE\")\n   public const val MIN_VALUE: Char = '\\u0000'\n\n   @JsName(\"MAX_VALUE\")\n   public const val MAX_VALUE: Char = '\\uFFFF'\n\n   @JsName(\"MIN_HIGH_SURROGATE\")\n   public const val MIN_HIGH_SURROGATE: Char = '\\uD800'\n\n   @JsName(\"MAX_HIGH_SURROGATE\")\n   public const val MAX_HIGH_SURROGATE: Char = '\\uDBFF'\n\n   @JsName(\"MIN_LOW_SURROGATE\")\n   public const val MIN_LOW_SURROGATE: Char = '\\uDC00'\n\n   @JsName(\"MAX_LOW_SURROGATE\")\n   public const val MAX_LOW_SURROGATE: Char = '\\uDFFF'\n\n   @JsName(\"MIN_SURROGATE\")\n   public const val MIN_SURROGATE: Char = MIN_HIGH_SURROGATE\n\n   @JsName(\"MAX_SURROGATE\")\n   public const val MAX_SURROGATE: Char = MAX_LOW_SURROGATE\n\n   @JsName(\"SIZE_BYTES\")\n   const val SIZE_BYTES = 2\n\n   @JsName(\"SIZE_BITS\")\n   const val SIZE_BITS = 16\n}\n\ninternal object StringCompanionObject {}\n\ninternal object BooleanCompanionObject {}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component1(): T {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component1(): Double {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where

the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior

is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component2(): Int {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline

operator fun LongArray.component2(): Long {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean {\n

 return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n

 * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws

 an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n

 * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic

 inline operator fun ShortArray.component4(): Short {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4():

 Float {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n   return get(3)\n}\n\n/**\n * Returns 5th

 element from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array

 is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5(): Float {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except

 in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char {\n   return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {\n   return indexOf(element) >=

 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun ByteArray.contains(element: Byte): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun ShortArray.contains(element: Short): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun IntArray.contains(element: Int): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun LongArray.contains(element: Long): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior as in a list.\", ReplaceWith(\"any { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n@Suppress(\"DEPRECATION_ERROR\")\npublic operator fun FloatArray.contains(element: Float): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it == element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior as in a list.\", ReplaceWith(\"any { it == element

}\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n@Suppress(\"DEPRECATION_ERROR\")\npublic operator fun DoubleArray.contains(element: Double): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun BooleanArray.contains(element: Boolean): Boolean {\n   return

 indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun CharArray.contains(element: Char): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun <T> Array<out T>.elementAt(index: Int): T\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun ByteArray.elementAt(index: Int): Byte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun ShortArray.elementAt(index:

 Int): Short\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun IntArray.elementAt(index: Int): Int\n\n/**\n * Returns an element at the given [index] or

throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun FloatArray.elementAt(index: Int): Float\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n

 */\npublic expect fun DoubleArray.elementAt(index: Int): Double\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun BooleanArray.elementAt(index: Int): Boolean\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharArray.elementAt(index: Int): Char\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n   return

 if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at

 the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n

 * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n

 */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic

 inline fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic

inline fun CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrNull(index: Int): T? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given

[index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrNull(index: Int): Byte? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrNull(index: Int): Short? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrNull(index: Int): Int? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of

 bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrNull(index: Int): Long? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrNull(index: Int): Float? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrNull(index: Int): Double? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample

 samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrNull(index: Int): Boolean? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrNull(index: Int): Char? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n

 */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic

 inline fun LongArray.find(predicate: (Long) -> Boolean): Long? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample

samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.find(predicate:

(Boolean) -> Boolean): Boolean? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n

  return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n   return lastOrNull(predicate)\n}\n\n/**\n *

 Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element

 matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.findLast(predicate: (Char) -> Boolean): Char? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n *\/\npublic fun <T> Array<out T>.first(): T {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n *\/\npublic fun ByteArray.first(): Byte {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n *\/\npublic fun ShortArray.first(): Short {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n

* Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
IntArray.first(): Int {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return
this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\npublic fun LongArray.first(): Long {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is
empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the
array is empty.\n */\npublic fun FloatArray.first(): Float {\n   if (isEmpty())\n   throw
NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n */\npublic fun DoubleArray.first(): Double {\n   if
(isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns first
element.\n

 * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun BooleanArray.first(): Boolean {\n
if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n * Returns
first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun CharArray.first():
Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[0]\n}\n\n/**\n
* Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n */\npublic inline fun <T> Array<out T>.first(predicate: (T) -> Boolean): T {\n   for (element in
this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element
matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun ByteArray.first(predicate:
 (Byte) -> Boolean): Byte {\n   for (element in this) if (predicate(element)) return element\n   throw
NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\npublic inline fun ShortArray.first(predicate: (Short) -> Boolean): Short {\n   for (element in this) if
(predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the
predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun IntArray.first(predicate: (Int) ->
Boolean): Int {\n   for (element in this) if (predicate(element)) return element\n   throw
NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first
element matching the given [predicate].\n

 * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun
LongArray.first(predicate: (Long) -> Boolean): Long {\n   for (element in this) if (predicate(element)) return
element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n *
Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such
element is found.\n */\npublic inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {\n   for (element in
this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element
matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.first(predicate:
(Double) -> Boolean): Double {\n   for (element in this) if (predicate(element)) return element\n   throw
NoSuchElementException(\"Array
 contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given
[predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun
BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (predicate(element))
return element\n   throw NoSuchElementException(\"Array contains no element matching the
predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws
[NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.first(predicate: (Char) ->
Boolean): Char {\n   for (element in this) if (predicate(element)) return element\n   throw
NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first
non-null value produced by [transform] function being applied to elements of this array in iteration order,\n * or

throws [NoSuchElementException] if no non-null

 value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out T>.firstNotNullOf(transform: (T) -> R?): R {\n   return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException(\"No element of the array was transformed to a non-null value.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this array in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n   for (element in this) {\n   val result = transform(element)\n   if (result != null) {\n   return result\n   }\n   }\n   return null\n}\n\n/**\n * Returns the first

 element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.firstOrNull(): T? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun ByteArray.firstOrNull(): Byte? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun ShortArray.firstOrNull(): Short? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun IntArray.firstOrNull(): Int? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun LongArray.firstOrNull(): Long? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun FloatArray.firstOrNull(): Float? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n

 * Returns the first element, or `null` if the array is empty.\n */\npublic fun DoubleArray.firstOrNull(): Double? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun BooleanArray.firstOrNull(): Boolean? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun CharArray.firstOrNull(): Char? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) -> Boolean): Byte? {\n   for (element in this)

 if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic

 inline fun FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun CharArray.firstOrNull(predicate: (Char) -> Boolean): Char? {\n   for (element in this) if (predicate(element)) return element\n   return

null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.getOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.getOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun <T> Array<out T>.getOrNull(index: Int): T? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun ByteArray.getOrNull(index: Int): Byte? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds\n of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun ShortArray.getOrNull(index: Int): Short? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun IntArray.getOrNull(index: Int): Int? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun LongArray.getOrNull(index: Int): Long? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun FloatArray.getOrNull(index: Int): Float? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of

this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun DoubleArray.getOrNull(index: Int): Double? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun BooleanArray.getOrNull(index: Int): Boolean? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun CharArray.getOrNull(index: Int): Char? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOf(element: T): Int {\n   if (element == null) {\n   for (index in indices) {\n   if (this[index] == null) {\n   return index\n   }\n   }\n   } else {\n   for (index in indices) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   }\n   return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.indexOf(element: Byte): Int {\n   for (index in indices) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun ShortArray.indexOf(element: Short): Int {\n   for (index in indices) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.indexOf(element: Int): Int {\n   for (index in indices) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun LongArray.indexOf(element: Long): Int {\n   for (index in indices) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a list.\", ReplaceWith(\"indexOfFirst { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic fun FloatArray.indexOf(element: Float): Int {\n   for (index in indices) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a list.\", ReplaceWith(\"indexOfFirst { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic fun DoubleArray.indexOf(element: Double): Int {\n   for (index in indices) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun BooleanArray.indexOf(element: Boolean): Int {\n   for (index in indices) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun CharArray.indexOf(element: Char): Int {\n   for (index in indices) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n   for (index in indices) {\n   if (predicate(this[index])) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n   for (index in indices) {\n   if (predicate(this[index])) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n   for (index in indices) {\n   if

(predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n for (index in indices) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n *

Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n for (index in indices) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n for (index in indices) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {\n for (index in indices) {\n   if (predicate(this[index])) {\n   return index\n   }\n

  }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n for (index in indices) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n for (index in indices) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {\n for (index in indices.reversed()) {\n   if (predicate(this[index]))

 {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n for (index in indices.reversed()) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n for (index in indices.reversed()) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n for (index

 in indices.reversed()) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n for (index in indices.reversed()) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n for (index in indices.reversed()) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun DoubleArray.indexOfLast(predicate:

 (Double) -> Boolean): Int {\n for (index in indices.reversed()) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {\n for (index in indices.reversed()) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n *\npublic inline fun CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {\n for (index in indices.reversed()) {\n   if (predicate(this[index])) {\n   return index\n   }\n }\n return -1\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n

* \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Array<out T>.last(): T {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun ByteArray.last(): Byte {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun ShortArray.last(): Short {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n

 */\npublic fun IntArray.last(): Int {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun LongArray.last(): Long {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun FloatArray.last(): Float {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun DoubleArray.last(): Double

 {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun BooleanArray.last(): Boolean {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun CharArray.last(): Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Array<out T>.last(predicate:

 (T) -> Boolean): T {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ShortArray.last(predicate:

 (Short) -> Boolean): Short {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample

samples.collections.Collections.Elements.last\n *\npublic inline fun LongArray.last(predicate:
 (Long) -> Boolean): Long {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if
(predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element
matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline fun FloatArray.last(predicate: (Float) -> Boolean):
Float {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element))
return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the
predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *\npublic inline
 fun DoubleArray.last(predicate: (Double) -> Boolean): Double {\n   for (index in this.indices.reversed()) {\n
val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw
NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n *\npublic inline fun BooleanArray.last(predicate:
(Boolean) -> Boolean): Boolean {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if
(predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element
matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws
NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
 *\npublic inline fun CharArray.last(predicate: (Char) -> Boolean): Char {\n   for (index in this.indices.reversed())
{\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw
NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index
of [element], or -1 if the array does not contain element.\n *\npublic fun <@kotlin.internal.OnlyInputTypes T>
Array<out T>.lastIndexOf(element: T): Int {\n   if (element == null) {\n   for (index in indices.reversed()) {\n
    if (this[index] == null) {\n   return index\n   }\n   }\n   } else {\n   for (index in
indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   }\n
return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n *\npublic fun
ByteArray.lastIndexOf(element: Byte): Int
 {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n
return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n *\npublic fun
ShortArray.lastIndexOf(element: Short): Int {\n   for (index in indices.reversed()) {\n   if (element ==
this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if
the array does not contain element.\n *\npublic fun IntArray.lastIndexOf(element: Int): Int {\n   for (index in
indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n
* Returns last index of [element], or -1 if the array does not contain element.\n *\npublic fun
LongArray.lastIndexOf(element: Long): Int {\n   for (index in indices.reversed()) {\n   if (element ==
this[index]) {\n   return index\n   }\n
   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n
*\n@Deprecated(\"The function has unclear behavior when searching for NaN or zero values and will be removed
soon. Use 'indexOfLast { it == element }' instead to continue using this behavior, or '.asList().lastIndexOf(element:
T)' to get the same search behavior as in a list.\", ReplaceWith(\"indexOfLast { it == element
}\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic fun
FloatArray.lastIndexOf(element: Float): Int {\n   for (index in indices.reversed()) {\n   if (element ==
this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if
the array does not contain element.\n *\n@Deprecated(\"The function has unclear behavior when searching for NaN
or zero values and will be removed soon. Use 'indexOfLast { it == element }' instead to continue using this

behavior, or '.asList().lastIndexOf(element:

 T)' to get the same search behavior as in a list.\", ReplaceWith(\"indexOfLast { it == element }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic fun DoubleArray.lastIndexOf(element: Double): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun BooleanArray.lastIndexOf(element: Boolean): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun CharArray.lastIndexOf(element: Char): Int {\n   for (index in indices.reversed()) {\n   if (element == this[index]) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n

 * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Array<out T>.lastOrNull(): T? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun ByteArray.lastOrNull(): Byte? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun ShortArray.lastOrNull(): Short? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun IntArray.lastOrNull(): Int? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the

 array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun LongArray.lastOrNull(): Long? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun FloatArray.lastOrNull(): Float? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun DoubleArray.lastOrNull(): Double? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun BooleanArray.lastOrNull(): Boolean? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n

 */\npublic fun CharArray.lastOrNull(): Char? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Array<out T>.lastOrNull(predicate: (T) -> Boolean): T? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element

 matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun LongArray.lastOrNull(predicate:

(Long) -> Boolean): Long? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n

    }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic

 inline fun <T> Array<out T>.random(): T {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.random(): Byte {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.random(): Short {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.random(): Int {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic

 inline fun LongArray.random(): Long {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random(): Float {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.random(): Double {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic

 inline fun CharArray.random(): Char {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Array<out T>.random(random: Random): T {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun ByteArray.random(random: Random): Byte {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the

specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun ShortArray.random(random: Random): Short {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun IntArray.random(random: Random): Int {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun LongArray.random(random: Random): Long {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source

of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun FloatArray.random(random: Random): Float {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun DoubleArray.random(random: Random): Double {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun BooleanArray.random(random: Random): Boolean {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharArray.random(random: Random): Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.randomOrNull(): T? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.randomOrNull(): Byte? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null`

if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.randomOrNull(): Short? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.randomOrNull(): Int? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.randomOrNull(): Long? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.randomOrNull():

Float? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.randomOrNull(): Double? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a

random element from this array, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli c inline fun BooleanArray.randomOrNull(): Boolean? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli c inline fun CharArray.randomOrNull(): Char? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of

 randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> Array<out T>.randomOrNull(random: Random): T? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ByteArray.randomOrNull(random: Random): Byte? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ShortArray.randomOrNull(random: Random): Short? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from

 this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun IntArray.randomOrNull(random: Random): Int? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun LongArray.randomOrNull(random: Random): Long? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun FloatArray.randomOrNull(random: Random): Float? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n

 * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun DoubleArray.randomOrNull(random: Random): Double? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun BooleanArray.randomOrNull(random: Random): Boolean? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharArray.randomOrNull(random: Random): Char? {\n   if (isEmpty())\n   return

 null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.single(): T {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun ByteArray.single(): Byte {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n

else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun ShortArray.single(): Short {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun IntArray.single(): Int {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun LongArray.single(): Long {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun FloatArray.single(): Float {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun DoubleArray.single(): Double {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun BooleanArray.single(): Boolean {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun CharArray.single(): Char {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as T\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {\n   var single: Byte? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Byte\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {\n   var single: Short? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Short\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun IntArray.single(predicate: (Int) -> Boolean): Int {\n   var single: Int? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw

NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Int\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun LongArray.single(predicate: (Long) -> Boolean): Long {\n   var single: Long? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Long\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {\n   var single: Float? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Float\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n   var single: Double? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Double\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n   var single: Boolean? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Boolean\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun CharArray.single(predicate: (Char) -> Boolean): Char {\n   var single: Char? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Char\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.singleOrNull(): T? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun ShortArray.singleOrNull(): Short? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun IntArray.singleOrNull(): Int? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun DoubleArray.singleOrNull(): Double? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one

element.\n */\npublic fun BooleanArray.singleOrNull(): Boolean? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ByteArray.singleOrNull(predicate:

 (Byte) -> Boolean): Byte? {\n   var single: Byte? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n   var single: Short? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun IntArray.singleOrNull(predicate:

 (Int) -> Boolean): Int? {\n   var single: Int? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long? {\n   var single: Long? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate:

 (Float) -> Boolean): Float? {\n   var single: Float? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate: (Double) -> Boolean): Double? {\n   var single: Double? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic

 inline fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n   var single: Boolean? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun CharArray.singleOrNull(predicate: (Char) -> Boolean): Char? {\n   var single: Char? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if

 [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n]

elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\"

}\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.drop(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n

*/\npublic fun FloatArray.drop(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.drop(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.drop(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n

* Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.drop(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.dropLast(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n

*/\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.dropLast(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list

containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.dropLast(n: Int): List<Long> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.dropLast(n: Int): List<Double> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.dropLast(n: Int): List<Boolean> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.dropLast(n: Int): List<Char> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last

elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropLastWhile(predicate: (Long) -> Boolean): List<Long> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index]))\n   {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing

all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n

*/\npublic inline fun <T> Array<out T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n   var yielding = false\n   val list = ArrayList<T>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n   var yielding = false\n   val list = ArrayList<Byte>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n *

\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropWhile(predicate: (Short) -> Boolean): List<Short> {\n   var yielding = false\n   val list = ArrayList<Short>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {\n   var yielding = false\n   val list = ArrayList<Int>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except

first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {\n   var yielding = false\n   val list = ArrayList<Long>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n   var yielding = false\n   val list = ArrayList<Float>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n

* Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropWhile(predicate: (Double) -> Boolean): List<Double> {\n   var yielding = false\n   val list = ArrayList<Double>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n   var yielding = false\n   val list = ArrayList<Boolean>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n

list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample

samples.collections.Collections.Transformations.drop\n *\npublic inline fun CharArray.dropWhile(predicate: (Char) -> Boolean): List<Char> {\n   var yielding = false\n   val list = ArrayList<Char>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {\n   return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n

*/\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {\n   return filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n   return filterTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {\n   return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n   return filterTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun FloatArray.filter(predicate: (Float) -> Boolean): List<Float> {\n   return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n   return filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n   return filterTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n

* \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun CharArray.filter(predicate: (Char) -> Boolean): List<Char> {\n   return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T> Array<out T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n   return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n

*/\npublic inline fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n   return filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun ShortArray.filterIndexed(predicate: (index: Int, Short) -> Boolean): List<Short> {\n   return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun IntArray.filterIndexed(predicate:

(index: Int, Int) -> Boolean): List<Int> {\n   return filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n

* @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun
LongArray.filterIndexed(predicate: (index: Int, Long) -> Boolean): List<Long> {\n   return
filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun FloatArray.filterIndexed(predicate:
(index: Int, Float) ->

 Boolean): List<Float> {\n   return filterIndexedTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list
containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an
element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun DoubleArray.filterIndexed(predicate:
(index: Int, Double) -> Boolean): List<Double> {\n   return filterIndexedTo(ArrayList<Double>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic
inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n

    return filterIndexedTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements
matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element
itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun CharArray.filterIndexed(predicate:
(index: Int, Char) -> Boolean): List<Char> {\n   return filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that
takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the
element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C :
MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean):
 C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n
return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate:
(index: Int, Byte) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element))
destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n

 * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C :
MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) ->
Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element))
destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {\n   forEachIndexed { index,
element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n *
Appends all elements

 matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an
element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {\n   forEachIndexed {

index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n

   }\n   return destination\n}\n\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R> Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n   return filterIsInstanceTo(ArrayList<R>())\n}\n\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {\n   for (element in this) if (element is R) destination.add(element)\n   return destination\n}\n\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n return filterNotTo(ArrayList<T>(), predicate)\n}\n\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean): List<Byte> {\n   return filterNotTo(ArrayList<Byte>(), predicate)\n}\n\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\n   return filterNotTo(ArrayList<Short>(), predicate)\n}\n\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\n   return filterNotTo(ArrayList<Int>(), predicate)\n}\n\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> {\n   return filterNotTo(ArrayList<Long>(), predicate)\n}\n\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun FloatArray.filterNot(predicate: (Float) ->

Boolean): List<Float> {\n   return filterNotTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun DoubleArray.filterNot(predicate: (Double) -> Boolean): List<Double> {\n   return filterNotTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic

inline fun BooleanArray.filterNot(predicate: (Boolean) -> Boolean): List<Boolean> {\n   return filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun CharArray.filterNot(predicate: (Char) -> Boolean): List<Char> {\n   return filterNotTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n */\npublic fun <T : Any> Array<out T?>.filterNotNull(): List<T> {\n   return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n */\npublic fun <C : MutableCollection<in T>, T : Any> Array<out T?>.filterNotNullTo(destination: C): C {\n   for (element in this) if (element != null) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n

*/\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n   for (element in this) if (!predicate(element))

destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n

*/\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *

@sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun <T> Array<out T>.slice(indices: IntRange): List<T> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.slice(indices: IntRange): List<Byte> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun ShortArray.slice(indices: IntRange): List<Short> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.slice(indices: IntRange): List<Int> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.slice(indices: IntRange): List<Long> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive +

1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.slice(indices: IntRange): List<Float> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.slice(indices: IntRange): List<Double> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.slice(indices: IntRange): List<Boolean> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.slice(indices: IntRange): List<Char> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<T>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun ByteArray.slice(indices: Iterable<Int>): List<Byte> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Byte>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun ShortArray.slice(indices: Iterable<Int>): List<Short> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Short>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun IntArray.slice(indices: Iterable<Int>): List<Int> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Int>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun LongArray.slice(indices: Iterable<Int>): List<Long> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Long>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun FloatArray.slice(indices: Iterable<Int>): List<Float> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Float>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Double>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>): List<Boolean> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Boolean>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun CharArray.slice(indices: Iterable<Int>): List<Char> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<Char>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun <T> Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n   val result = arrayOfNulls(this, indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n   val result = ByteArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n   val result = ShortArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n

result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun IntArray.sliceArray(indices: Collection<Int>): IntArray {\n   val result = IntArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun LongArray.sliceArray(indices: Collection<Int>): LongArray {\n   val result = LongArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n   val result = FloatArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n

return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n   val result = DoubleArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n   val result = BooleanArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n   result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun CharArray.sliceArray(indices: Collection<Int>): CharArray {\n   val result = CharArray(indices.size)\n   var targetIndex = 0\n   for (sourceIndex in indices) {\n

result[targetIndex++] = this[sourceIndex]\n   }\n   return result\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun <T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n   if (indices.isEmpty()) return copyOfRange(0, 0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n   if (indices.isEmpty()) return ByteArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun ShortArray.sliceArray(indices: IntRange): ShortArray {\n   if (indices.isEmpty()) return ShortArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n   if (indices.isEmpty()) return IntArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.sliceArray(indices: IntRange): LongArray {\n   if (indices.isEmpty()) return LongArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.sliceArray(indices: IntRange): FloatArray {\n   if (indices.isEmpty()) return FloatArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.sliceArray(indices: IntRange): DoubleArray {\n   if (indices.isEmpty()) return DoubleArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {\n   if (indices.isEmpty()) return BooleanArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.sliceArray(indices: IntRange): CharArray {\n   if (indices.isEmpty()) return CharArray(0)\n   return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n

if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<T>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.take(n: Int): List<Byte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Byte>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\npublic fun ShortArray.take(n: Int): List<Short> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Short>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.take(n: Int): List<Int> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Int>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n

    break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.take(n: Int): List<Long> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Long>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.take(n: Int): List<Float> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n

    if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Float>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.take(n: Int): List<Double> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Double>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample

 samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.take(n: Int): List<Boolean> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Boolean>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.take(n: Int): List<Char> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<Char>(n)\n   for (item in this) {\n

    list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.takeLast(n: Int): List<T>

{\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<T>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n

   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Byte>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Short>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

 */\npublic fun IntArray.takeLast(n: Int): List<Int> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Int>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.takeLast(n: Int): List<Long> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Long>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n

   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.takeLast(n: Int): List<Float> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Float>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.takeLast(n: Int): List<Double> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n

   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Double>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.takeLast(n: Int): List<Boolean> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Boolean>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic

 fun CharArray.takeLast(n: Int): List<Char> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<Char>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given

[predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeLastWhile(predicate: (Char) -> Boolean): List<Char> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n   val list = ArrayList<T>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeWhile(predicate: (Byte) -> Boolean): List<Byte> {\n   val list = ArrayList<Byte>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n   val list = ArrayList<Short>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {\n   val list = ArrayList<Int>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun

LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n   val list = ArrayList<Long>()\n   for (item in this) {\n   if

 (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {\n   val list = ArrayList<Float>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n   val list = ArrayList<Double>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n *
 \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n   val list = ArrayList<Boolean>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n   val list = ArrayList<Char>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun <T> Array<T>.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ByteArray.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ShortArray.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun IntArray.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint <

 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun LongArray.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun FloatArray.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements in the array

 in-place.\n */\npublic fun DoubleArray.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun BooleanArray.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun CharArray.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n

this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<T>.reverse(fromIndex: Int, toIndex: Int): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val midPoint = (fromIndex + toIndex) / 2\n   if (fromIndex == midPoint) return\n   var reverseIndex = toIndex - 1\n   for (index in fromIndex until midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val midPoint = (fromIndex + toIndex) / 2\n   if (fromIndex == midPoint) return\n   var reverseIndex = toIndex - 1\n   for (index in fromIndex until midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val midPoint = (fromIndex + toIndex) / 2\n   if (fromIndex == midPoint) return\n   var reverseIndex = toIndex - 1\n   for (index in fromIndex until midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val midPoint = (fromIndex + toIndex) / 2\n   if (fromIndex == midPoint) return\n   var reverseIndex = toIndex - 1\n   for (index in fromIndex until midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val midPoint = (fromIndex + toIndex) / 2\n   if (fromIndex == midPoint) return\n   var reverseIndex = toIndex - 1\n   for (index in fromIndex until midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.reverse(fromIndex:

Int, toIndex: Int): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val midPoint = (fromIndex + toIndex) / 2\n   if (fromIndex == midPoint) return\n   var reverseIndex = toIndex - 1\n   for (index in fromIndex until midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val midPoint = (fromIndex + toIndex) / 2\n   if (fromIndex == midPoint) return\n   var reverseIndex = toIndex - 1\n   for (index in fromIndex until midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val midPoint = (fromIndex + toIndex) / 2\n   if (fromIndex == midPoint) return\n   var reverseIndex = toIndex - 1\n

    for (index in fromIndex until midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val midPoint = (fromIndex + toIndex) / 2\n   if (fromIndex == midPoint) return\n   var reverseIndex = toIndex - 1\n   for (index in fromIndex until midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n

        this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Array<out T>.reversed(): List<T> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun ByteArray.reversed(): List<Byte> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun ShortArray.reversed(): List<Short> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun IntArray.reversed(): List<Int> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements

 in reversed order.\n */\npublic fun LongArray.reversed(): List<Long> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun FloatArray.reversed(): List<Float> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun DoubleArray.reversed(): List<Double> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun BooleanArray.reversed(): List<Boolean> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun CharArray.reversed(): List<Char> {\n   if (isEmpty()) return

 emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun <T> Array<T>.reversedArray(): Array<T> {\n   if (isEmpty()) return this\n   val result = arrayOfNulls(this, size)\n   val lastIndex = lastIndex\n   for (i in

0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun ByteArray.reversedArray(): ByteArray {\n if (isEmpty()) return this\n val result = ByteArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun ShortArray.reversedArray(): ShortArray {\n if (isEmpty()) return this\n val result = ShortArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n

result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun IntArray.reversedArray(): IntArray {\n if (isEmpty()) return this\n val result = IntArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun LongArray.reversedArray(): LongArray {\n if (isEmpty()) return this\n val result = LongArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun FloatArray.reversedArray(): FloatArray {\n if (isEmpty()) return this\n val result = FloatArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n

return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun DoubleArray.reversedArray(): DoubleArray {\n if (isEmpty()) return this\n val result = DoubleArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun BooleanArray.reversedArray(): BooleanArray {\n if (isEmpty()) return this\n val result = BooleanArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun CharArray.reversedArray(): CharArray {\n if (isEmpty()) return this\n val result = CharArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n

* Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<T>.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n

*/\n@SinceKotlin(\"1.4\")\npublic fun IntArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n

*/\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic

fun DoubleArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n

*/\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<T>.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n *

See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.shuffle(random: Random): Unit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the

source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j] = copy\n   }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j] = copy\n   }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j] = copy\n   }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j] = copy\n   }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j] = copy\n   }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j] = copy\n   }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j] = copy\n   }\n}\n\n/**\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {\n   if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n   if (size > 1) sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {\n   sortWith(reverseOrder())\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ByteArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n

reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ShortArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun IntArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun LongArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun FloatArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun

DoubleArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun CharArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {\n   return sortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ByteArray.sorted(): List<Byte> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ShortArray.sorted(): List<Short> {\n   return toTypedArray().apply

{ sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun IntArray.sorted(): List<Int> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun LongArray.sorted(): List<Long> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun FloatArray.sorted(): List<Float> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun DoubleArray.sorted(): List<Double> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun CharArray.sorted(): List<Char> {\n   return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n

 * Returns an array with all elements of this array sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArray(): Array<T> {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ByteArray.sortedArray(): ByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n   if (isEmpty()) return this\   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray():

 IntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun FloatArray.sortedArray(): FloatArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun DoubleArray.sortedArray(): DoubleArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n   if (isEmpty()) return this\n

   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>

Array<T>.sortedArrayDescending(): Array<T> {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortWith(reverseOrder()) }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun ByteArray.sortedArrayDescending(): ByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun ShortArray.sortedArrayDescending(): ShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n

 * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun IntArray.sortedArrayDescending(): IntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedArrayDescending(): LongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun FloatArray.sortedArrayDescending(): FloatArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun DoubleArray.sortedArrayDescending(): DoubleArray {\n   if
 (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun CharArray.sortedArrayDescending(): CharArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortWith(comparator) }\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other

 after sorting.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list

 of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?):

List<Float> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n

 */\npublic inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending

 according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural

 sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to

 natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {\n   return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun ByteArray.sortedDescending(): List<Byte> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their

natural sort order.\n */\npublic fun ShortArray.sortedDescending(): List<Short> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun IntArray.sortedDescending(): List<Int> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedDescending(): List<Long> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun FloatArray.sortedDescending(): List<Float> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun DoubleArray.sortedDescending(): List<Double> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun CharArray.sortedDescending(): List<Char> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {\n   return sortedArrayWith(comparator).asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun <T> Array<out T>.asList(): List<T>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun ByteArray.asList(): List<Byte>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun ShortArray.asList(): List<Short>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun IntArray.asList(): List<Int>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun LongArray.asList(): List<Long>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun FloatArray.asList(): List<Float>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun DoubleArray.asList(): List<Double>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun BooleanArray.asList(): List<Boolean>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun CharArray.asList(): List<Char>\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic
expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The specified arrays are also considered deeply equal if both are `null`.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun <T> Array<out T>?.contentDeepEquals(other: Array<out T>?): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested

arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic expect fun <T> Array<out T>.contentDeepHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T> Array<out T>?.contentDeepHashCode(): Int\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic
expect fun <T> Array<out T>.contentDeepToString(): String\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T> Array<out T>?.contentDeepToString(): String\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince
= \"1.4\")\npublic expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN`

is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun IntArray.contentEquals(other: IntArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same

elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun LongArray.contentEquals(other: LongArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun FloatArray.contentEquals(other:

FloatArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use

Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality

with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating

point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun IntArray?.contentEquals(other: IntArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0`

is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun LongArray?.contentEquals(other: LongArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\npublic expect infix fun CharArray?.contentEquals(other: CharArray?): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun <T> Array<out T>.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun ByteArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun ShortArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun IntArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun LongArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun FloatArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun DoubleArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun BooleanArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun CharArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T> Array<out T>?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect

fun ByteArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun ShortArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun IntArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun LongArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun FloatArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun DoubleArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun BooleanArray?.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\npublic expect fun CharArray?.contentHashCode(): Int\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun <T> Array<out T>.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun ByteArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun ShortArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun IntArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun LongArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun FloatArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun DoubleArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun BooleanArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic expect fun CharArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array

as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T> Array<out T>?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n

*/\n@SinceKotlin(\"1.4\")\npublic expect fun ByteArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun ShortArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun IntArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun LongArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n

 * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun FloatArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun DoubleArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun BooleanArray?.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\npublic expect fun CharArray?.contentToString(): String\n\n/**\n * Copies this array or its subrange

 into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect

 fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified

 [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by

default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is

out of the [destination] array indices range.\n * \n * @return
 the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange
 doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException
 or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOf(): Array<T>\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf */\npublic expect fun ByteArray.copyOf(): ByteArray\n\n/**\n * Returns
 new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf */\npublic expect fun ShortArray.copyOf(): ShortArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf */\npublic expect fun IntArray.copyOf(): IntArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf */\npublic expect fun LongArray.copyOf(): LongArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf */\npublic expect fun FloatArray.copyOf(): FloatArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf */\npublic expect fun DoubleArray.copyOf(): DoubleArray\n\n/**\n * Returns new array which is a copy of the original
 array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf */\npublic expect fun BooleanArray.copyOf(): BooleanArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf */\npublic expect fun CharArray.copyOf(): CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun ByteArray.copyOf(newSize: Int): ByteArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n

 * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun ShortArray.copyOf(newSize: Int): ShortArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n

 */\npublic expect fun IntArray.copyOf(newSize: Int): IntArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun LongArray.copyOf(newSize: Int): LongArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size

 of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun FloatArray.copyOf(newSize: Int): FloatArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun DoubleArray.copyOf(newSize: Int): DoubleArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values

 if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun BooleanArray.copyOf(newSize: Int): BooleanArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun

 CharArray.copyOf(newSize: Int): CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *

@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of

 this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException

 if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n

 * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the

 end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the

 range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws

IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val <T> Array<out T>.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val ByteArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the

range of valid indices for the array.\n */\npublic val ShortArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val IntArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val LongArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val FloatArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val DoubleArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val BooleanArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val CharArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns `true`

if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic

inline fun DoubleArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic

inline fun IntArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the array.\n */\npublic val <T> Array<out

T>.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ByteArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ShortArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val IntArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val LongArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val FloatArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val DoubleArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val BooleanArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val CharArray.lastIndex: Int\n   get() = size

- 1\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(element: T):

Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ByteArray.plus(element: Byte): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ShortArray.plus(element: Short): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun IntArray.plus(element: Int): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun LongArray.plus(element: Long): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun FloatArray.plus(element: Float): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun DoubleArray.plus(element: Double): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun BooleanArray.plus(element: Boolean): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun CharArray.plus(element: Char): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun IntArray.plus(elements: Collection<Int>): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun LongArray.plus(elements: Collection<Long>): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun CharArray.plus(elements: Collection<Char>): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ByteArray.plus(elements: ByteArray): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ShortArray.plus(elements: ShortArray): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun IntArray.plus(elements: IntArray): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun LongArray.plus(elements: LongArray): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun FloatArray.plus(elements: FloatArray): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray\n\n/**\n * Returns an array containing all

elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun CharArray.plus(elements: CharArray): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.plusElement(element: T): Array<T>\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun IntArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n

 * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun LongArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ByteArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ShortArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun DoubleArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun FloatArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun CharArray.sort(): Unit\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their

 order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic expect fun <T : Comparable<T>> Array<out T>.sort(): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n

 * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\npublic expect fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

 * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\npublic expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\npublic expect fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by

 default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *

@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n *\n@SinceKotlin(\"1.4\")\npublic expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n *\n@SinceKotlin(\"1.4\")\npublic expect fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n *\n@SinceKotlin(\"1.4\")\npublic expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n *\n@SinceKotlin(\"1.4\")\npublic expect fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n   sortWith(reverseOrder(), fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.4\")\npublic fun IntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater

than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than

zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the

array in the specified range in-place.\n * The elements are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/**\n * Sorts a range in the array in-place with the given [comparator].\n

 * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns an array of Boolean containing all of the elements of this generic array.\n */\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n   return BooleanArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this generic array.\n */\npublic fun Array<out Byte>.toByteArray(): ByteArray

 {\n   return ByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Char containing all of the elements of this generic array.\n */\npublic fun Array<out Char>.toCharArray(): CharArray {\n   return CharArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Double containing all of the elements of this generic array.\n */\npublic fun Array<out Double>.toDoubleArray(): DoubleArray {\n   return DoubleArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Float containing all of the elements of this generic array.\n */\npublic fun Array<out Float>.toFloatArray(): FloatArray {\n   return FloatArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Int containing all of the elements of this generic array.\n */\npublic fun Array<out Int>.toIntArray(): IntArray {\n   return IntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Long containing all of the elements of this generic array.\n */\npublic fun

 Array<out Long>.toLongArray(): LongArray {\n   return LongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Short containing all of the elements of this generic array.\n */\npublic fun Array<out Short>.toShortArray(): ShortArray {\n   return ShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun ByteArray.toTypedArray(): Array<Byte>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun ShortArray.toTypedArray(): Array<Short>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun

IntArray.toTypedArray(): Array<Int>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun LongArray.toTypedArray(): Array<Long>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun FloatArray.toTypedArray(): Array<Float>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun DoubleArray.toTypedArray(): Array<Double>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun BooleanArray.toTypedArray(): Array<Boolean>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun CharArray.toTypedArray(): Array<Char>\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <T, K, V> Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V> FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n   val capacity =
mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n *
 applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added
to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n   val capacity =
mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity),
transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to
elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitives\n */\npublic inline fun <K, V>
CharArray.associate(transform: (Char) -> Pair<K,

 V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return
associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements
from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If
any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n *
The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <T, K>
Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n   val capacity =
mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, T>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would
 have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n   val capacity =
mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Byte>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key
returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration
order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
ShortArray.associateBy(keySelector: (Short) ->

 K): Map<K, Short> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return
associateByTo(LinkedHashMap<K, Short>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the
elements from the given array indexed by the key\n * returned from [keySelector] function applied to each
element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to
the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>
IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n   val capacity =
mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Int>(capacity),
keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n *
returned from [keySelector] function applied to each element.\n * \n * If any two elements
 would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K>

LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Long>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> FloatArray.associateBy(keySelector:

 (Float) -> K): Map<K, Float> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Float>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Double>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n

 * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Boolean>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesBy\n */\npublic inline fun <K> CharArray.associateBy(keySelector:

 (Char) -> K): Map<K, Char> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]\n and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original

array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByWithValueTransform\n */\npublic inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity),

keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n

 * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte)

 -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n *

 and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination:

 M, keySelector: (Long) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Float>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element

 of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any

two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in

Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByTo\n */\npublic inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with

key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element),

valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned

by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination:

 M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n

 * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added

 to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value

 pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Populates and

returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {\n   for

 (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n

 */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample

samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element

 of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n

    }\n   return destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <K, V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n   val result = LinkedHashMap<K, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n

 * @sample samples.collections.Collections.Transformations.associateWith\n

 */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V>

ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> {\n   val result = LinkedHashMap<Byte, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function

applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> {\n   val result = LinkedHashMap<Short, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> {\n   val result = LinkedHashMap<Int, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order

 of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> {\n   val result = LinkedHashMap<Long, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> {\n   val result = LinkedHashMap<Float, V>(mapCapacity(size).coerceAtLeast(16))\n

    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> {\n   val result = LinkedHashMap<Double, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned

 map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {\n   val result = LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V> CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n   val result

= LinkedHashMap<Char, V>(mapCapacity(size.coerceAtMost(128)).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Array<out K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by

the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Byte, in V>> ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic

inline fun <V, M : MutableMap<in Short, in V>> ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Int, in V>> IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination]

mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Long, in V>> LongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n

 * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Float, in V>> FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Double, in V>> DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Boolean, in V>> BooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Char, in V>> CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n   return toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun ByteArray.toHashSet(): HashSet<Byte> {\n   return toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n   return toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun IntArray.toHashSet(): HashSet<Int> {\n   return toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun LongArray.toHashSet(): HashSet<Long> {\n   return

toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun FloatArray.toHashSet(): HashSet<Float> {\n   return toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun DoubleArray.toHashSet(): HashSet<Double> {\n return toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n   return toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun CharArray.toHashSet(): HashSet<Char> {\n   return toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun <T> Array<out T>.toList(): List<T> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun ByteArray.toList(): List<Byte> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun ShortArray.toList(): List<Short> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun IntArray.toList(): List<Int> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun LongArray.toList(): List<Long> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun FloatArray.toList(): List<Float> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun DoubleArray.toList(): List<Double> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun BooleanArray.toList(): List<Boolean> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun CharArray.toList(): List<Char> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n   return ArrayList(this.asCollection())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun ByteArray.toMutableList(): MutableList<Byte> {\n   val list = ArrayList<Byte>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun ShortArray.toMutableList(): MutableList<Short> {\n   val list = ArrayList<Short>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun IntArray.toMutableList(): MutableList<Int> {\n   val list = ArrayList<Int>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun LongArray.toMutableList(): MutableList<Long> {\n   val list = ArrayList<Long>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun FloatArray.toMutableList(): MutableList<Float> {\n   val list = ArrayList<Float>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun DoubleArray.toMutableList(): MutableList<Double> {\n   val list = ArrayList<Double>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun BooleanArray.toMutableList(): MutableList<Boolean> {\n   val list = ArrayList<Boolean>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n */\npublic fun CharArray.toMutableList(): MutableList<Char> {\n   val list = ArrayList<Char>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the

element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toSet(): Set<T> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n

    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toSet(): Set<Byte> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toSet(): Set<Short> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toSet(): Set<Int> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n

    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toSet(): Set<Long> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toSet(): Set<Float> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toSet(): Set<Double> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n

    }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toSet(): Set<Boolean> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n   }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toSet(): Set<Char> {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n   }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <T,

 R> Array<out T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample

 samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> FloatArray.flatMap(transform:

(Float) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform]
 function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
 */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequence\")\npublic inline fun <T, R> Array<out T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
 */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun
 <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
 */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
 */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
 */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n
 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
 */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the

 original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.flatMapIndexed(transform: (index: Int, Char)

 -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequence\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic

 inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, Byte) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val

list = transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, Short) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic

 inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int, Int) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Int, Long)

 -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination: C, transform: (index: Int, Float) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and

 its index in the original array, to the given [destination].\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index: Int, Double) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in

 R>> BooleanArray.flatMapIndexedTo(destination: C, transform: (index: Int, Boolean) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array, to the given [destination].\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Char) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++,
element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all
 elements yielded from results of [transform] function being invoked on each element\n * and its index in the
original array, to the given [destination].\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequenceTo\")\n@kotlin.internal.InlineOnly\npu
blic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n   var index = 0\n   for (element in this) {\n   val list =
transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C,
transform: (T) -> Iterable<R>): C {\n   for (element in this) {\n
     val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C,
transform: (Byte) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n
destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C
{\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return
destination\n}\n\n/**\n * Appends all elements yielded from results
 of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic
inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C
{\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C {\n   for (element in this) {\n   val
list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>>
 FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {\n   for (element in this) {\n   val
list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C,
transform: (Double) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n
destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) ->
Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n
     destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline
fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C
{\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequenceTo\")\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n   return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun

<K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration

 order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n

 * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned

 map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ShortArray.groupBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n

  return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map

 where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V>

FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> DoubleArray.groupBy(keySelector:

(Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>>

Array<out T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<T>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Byte>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the

key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Short>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K,

M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Int>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original

array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Long>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements

 of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Float>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Double>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Boolean>() }\n   list.add(element)\n

    }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Char>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding

 values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>>

 ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values

returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key)

{ ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each

element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding

values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>>

DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return

destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the

[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Creates a [Grouping] source from an array to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n   return object : Grouping<T, K> {\n   override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n   override fun keyOf(element: T): K = keySelector(element)\n   }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> IntArray.map(transform: (Int) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> LongArray.map(transform: (Long) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> FloatArray.map(transform: (Float) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {\n   return

mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n

 * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int, Double) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element

 itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> BooleanArray.mapIndexed(transform: (index: Int, Boolean) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied

 to the element.\n */\npublic inline fun <T, R : Any> Array<out T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n   return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n   forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes

 the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of

an element and the element itself\n * and returns the result of the transform applied to the element.\n *\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function
 to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {\n   var index = 0\n
    for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\npublic
 inline fun <R, C : MutableCollection<in R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform]
 function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Returns
 a list containing only the non-null results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n *\npublic inline fun <T, R : Any> Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {\n   return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original array\n * and appends only the non-null results to the given [destination].\n *\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n   forEach { element -> transform(element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given

[destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform:

 (T) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in

 R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results

 to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C, transform: (Char) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T> Array<out T>.withIndex(): Iterable<IndexedValue<T>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n

 */\npublic fun IntArray.withIndex(): Iterable<IndexedValue<Int>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun

DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * Among equal elements of the given array, only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Array<out T>.distinct(): List<T>

 {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun ByteArray.distinct(): List<Byte> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun ShortArray.distinct(): List<Short> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n

 */\npublic fun IntArray.distinct(): List<Int> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun LongArray.distinct(): List<Long> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun FloatArray.distinct(): List<Float> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting

 list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun DoubleArray.distinct(): List<Double> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun BooleanArray.distinct(): List<Boolean> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun CharArray.distinct(): List<Char> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns

 a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the given array with equal keys, only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K): List<T> {\n   val set = HashSet<K>()\n   val list = ArrayList<T>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n   return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source

array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n
 */\npublic inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n   val set = HashSet<K>()\n
val list = ArrayList<Byte>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n
list.add(e)\n   }\n   return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having
distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same
order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n   val set = HashSet<K>()\n   val list =
ArrayList<Short>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n
  return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having
 distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same
order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n   val set = HashSet<K>()\n   val list = ArrayList<Int>()\n
for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n   return list\n}\n\n/**\n
* Returns a list containing only elements from the given array\n * having distinct keys returned by the given
[selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline
fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n   val set = HashSet<K>()\n   val list =
ArrayList<Long>()\n
    for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n   return
list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by
the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the
source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic
inline fun <K> FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n   val set = HashSet<K>()\n   val list =
ArrayList<Float>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n
 return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
 samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n   val set = HashSet<K>()\n   val list =
ArrayList<Double>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n
}\n   return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n   val set = HashSet<K>()\n   val list =
ArrayList<Boolean>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n
}\n   return list\n}\n\n/**\n * Returns
 a list containing only elements from the given array\n * having distinct keys returned by the given [selector]
function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n *
@sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n   val set = HashSet<K>()\n   val list =
ArrayList<Char>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n
 return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T>
Array<out T>.intersect(other: Iterable<T>): Set<T> {\n   val set

= this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n

return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n return set\n}\n\n/**\n * Returns

 a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that

 are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun BooleanArray.intersect(other: Iterable<Boolean>): Set<Boolean> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not

 contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {\n   val set = this.toMutableSet()\n set.removeAll(other)\n

    return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n

*/\npublic infix fun IntArray.subtract(other: Iterable<Int>): Set<Int> {\n   val set = this.toMutableSet()\n set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n

*/\npublic infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {\n   val set = this.toMutableSet()\n set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array

and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toMutableSet(): MutableSet<T> {\n   return toCollection(LinkedHashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toMutableSet(): MutableSet<Byte> {\n   return toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given

array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n   return toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n   return toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toMutableSet(): MutableSet<Long> {\n   return toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order

of the original array.\n */\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {\n   return toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {\n   return toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n   return toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toMutableSet():

MutableSet<Char> {\n   return toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a set containing

all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing

all elements that are contained in both collections use [intersect].\n */\npublic infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are

unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun IntArray.union(other: Iterable<Int>): Set<Int> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun LongArray.union(other: Iterable<Long>): Set<Long> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the

element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n *

Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun CharArray.union(other: Iterable<Char>):

Set<Char> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Array<out T>.all(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given

[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ByteArray.all(predicate: (Byte) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun LongArray.all(predicate: (Long) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun FloatArray.all(predicate: (Float) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n

 */\npublic inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharArray.all(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Array<out T>.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ByteArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ShortArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun IntArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun LongArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun FloatArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns

 `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun DoubleArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun BooleanArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n

 */\npublic inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic

inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun IntArray.any(predicate: (Int) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n

 */\npublic inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun DoubleArray.any(predicate: (Double) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic

 inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this

 array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T> Array<out

 T>.count(predicate: (T) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun IntArray.count(predicate: (Int) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun LongArray.count(predicate:

 (Long) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun FloatArray.count(predicate: (Float) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n   var count = 0\n

for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun

 CharArray.count(predicate: (Char) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that

 takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n

 * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator,

 element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic

 inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to

right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial]
 value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element
 in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns
 the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldIndexed(initial: R, operation:
 (index: Int, acc: R, Int) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n
 * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates
 the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator =

operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n

 * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and

 current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates

 value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>

 IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element

 and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying

[operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) ->

R): R {\n   var index = lastIndex\n   var accumulator
 = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator))\n   --index\n
}\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from
right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns
the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) -> R): R {\n
var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index,
get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to

 left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\npublic inline fun <R> DoubleArray.foldRightIndexed(initial: R, operation: (index: Int, Double, acc: R) -> R): R
{\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator =
operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the
original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n *
\n * @param [operation] function that takes the index of an element, the element

 itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R>
BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {\n   var index =
lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index),
accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]
value and applying [operation] from right to left\n * to each element with its index in the original array and current
accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the
next accumulator value.\n */\npublic inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int,
Char, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator

 = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n
}\n   return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun <T>
Array<out T>.forEach(action: (T) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n */\npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {\n   for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun
ShortArray.forEach(action: (Short) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n */\npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {\n   for
(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun
LongArray.forEach(action: (Long) -> Unit): Unit {\n   for

 (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun
FloatArray.forEach(action: (Float) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs
the given [action] on each element.\n */\npublic inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {\n
 for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline
fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n */\npublic inline fun CharArray.forEach(action: (Char) -> Unit):
Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing
sequential index with the element.\n * @param [action] function that takes the index of an element and the element
itself\n * and performs the action on the element.\n */\npublic

 inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n   var index = 0\n   for (item
in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index

with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\npublic inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\npublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing

 sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\npublic inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\npublic inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\npublic inline fun FloatArray.forEachIndexed(action:

 (index: Int, Float) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\npublic inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {\n   var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\npublic inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with

 the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\npublic inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.max(): Double? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.max(): Float? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince

 = \"1.6\")\npublic fun <T : Comparable<T>> Array<out T>.max(): T? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ByteArray.max(): Byte? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ShortArray.max(): Short? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun IntArray.max(): Int? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun LongArray.max():

Long? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun FloatArray.max(): Float? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.max(): Double {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharArray.max(): Char? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxBy(selector:

(T) -> R): T? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R): Short? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull

instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R): Long? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R): Float? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince

= \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R): Char? {\n   return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxByOrNull(selector: (T) -> R): T? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n

    for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) -> R): Byte? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue =

selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function

or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> ShortArray.maxByOrNull(selector: (Short) -> R): Short? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex

 = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> LongArray.maxByOrNull(selector: (Long) -> R): Long? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n

 * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> DoubleArray.maxByOrNull(selector: (Double)

 -> R): Double? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue

 < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> CharArray.maxByOrNull(selector: (Char) -> R): Char? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned

result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->
Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for
(i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline

fun ByteArray.maxOf(selector: (Byte) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue =
maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for
(i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue,

v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`,
the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Double):
Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in
1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n

* \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for
(i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector:

(Float) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue =
selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n
}\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n *
applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for
(i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return

maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n

 * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector:

 (T) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n

 * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException

 if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) -> Float):
 Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the

 largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array

 is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Float): Float {\n   if

 (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxOf(selector: (T) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied

 to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ByteArray.maxOf(selector: (Byte) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var

maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ShortArray.maxOf(selector:

(Short) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> IntArray.maxOf(selector: (Int) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all

 values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> LongArray.maxOf(selector: (Long) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline

 fun <R : Comparable<R>> FloatArray.maxOf(selector: (Float) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> DoubleArray.maxOf(selector: (Double) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return

 maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> BooleanArray.maxOf(selector: (Boolean) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun <R : Comparable<R>> CharArray.maxOf(selector: (Char) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector: (T) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n

    val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced

 by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(selector: (Int) -> Double): Double?

 {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(selector: (Long) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n

 * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOfOrNull(selector: (Float) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array

or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun DoubleArray.maxOfOrNull(selector: (Double) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOfOrNull(selector: (Boolean) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue,

 v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOfOrNull(selector: (Char) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector: (T) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue

 = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n * if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOfOrNull(selector: (Int) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns

the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOfOrNull(selector: (Long) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOfOrNull(selector: (Float) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest

value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOfOrNull(selector: (Double) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun BooleanArray.maxOfOrNull(selector: (Boolean) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOfOrNull(selector: (Char) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val

v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxOfOrNull(selector: (T) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun <R : Comparable<R>> ByteArray.maxOfOrNull(selector: (Byte) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if

(maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ShortArray.maxOfOrNull(selector: (Short) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n

    }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> IntArray.maxOfOrNull(selector: (Int) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <R : Comparable<R>> LongArray.maxOfOrNull(selector: (Long) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> FloatArray.maxOfOrNull(selector: (Float) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among

 all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> DoubleArray.maxOfOrNull(selector: (Double) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> BooleanArray.maxOfOrNull(selector:

 (Boolean) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharArray.maxOfOrNull(selector: (Char) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided

[comparator]\n * among all values
 produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
 inline fun <R> ByteArray.maxOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.maxOfWith(comparator: Comparator<in R>, selector: (Short) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n
    for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.maxOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according
 to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.maxOfWith(comparator: Comparator<in R>, selector: (Long) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
 inline fun <R> FloatArray.maxOfWith(comparator: Comparator<in R>, selector: (Float) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all

values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.maxOfWith(comparator: Comparator<in R>, selector: (Double) -> R): R {\n   if (isEmpty())

 throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.maxOfWith(comparator: Comparator<in R>, selector: (Boolean) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n

    }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.maxOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <T, R> Array<out T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>

ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n   if (isEmpty())

 return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>

ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n   if (isEmpty())

 return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest

 value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun <R> LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val

v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function

applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.maxOfWithOrNull(comparator:

Comparator<in R>, selector: (Char) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Array<out Double>.maxOrNull(): Double? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   max = maxOf(max, e)\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Array<out Float>.maxOrNull(): Float? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n

val e = this[i]\n   max = maxOf(max, e)\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Array<out T>.maxOrNull(): T? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.maxOrNull(): Byte? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.maxOrNull(): Short? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.maxOrNull(): Int? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.maxOrNull(): Long? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.maxOrNull(): Float? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   max = maxOf(max, e)\n

    }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.maxOrNull(): Double? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   max = maxOf(max, e)\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.maxOrNull(): Char? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n   return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use

 maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n   return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n   return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n   return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince

 = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {\n   return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n   return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double? {\n   return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince

= \"1.5\", hiddenSince

 = \"1.6\")\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {\n   return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n   return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<out T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no

 elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.maxWithOrNull(comparator: Comparator<in Byte>): Byte? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.maxWithOrNull(comparator: Comparator<in Short>): Short? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {\n   if (isEmpty())

 return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.maxWithOrNull(comparator: Comparator<in Long>): Long? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max,

 e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>): Double? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>): Boolean? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the

 provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.min(): Double? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.min(): Float? {\n   return

minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince
 = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T : Comparable<T>> Array<out T>.min(): T?
{\n   return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun ByteArray.min(): Byte? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use
minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun ShortArray.min(): Short? {\n   return
minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun IntArray.min(): Int? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use
minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
errorSince = \"1.5\", hiddenSince
 = \"1.6\")\npublic fun LongArray.min(): Long? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull
instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince = \"1.6\")\npublic fun FloatArray.min(): Float? {\n   return
minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun DoubleArray.min(): Double? {\n   return
minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun CharArray.min(): Char? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use
minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince =
\"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T,
 R : Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T? {\n   return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R):
Byte? {\n   return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R):
Short? {\n   return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int?
{\n   return minByOrNull(selector)\n}\n\n@Deprecated(\"Use
 minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince =
\"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>>
LongArray.minBy(selector: (Long) -> R): Long? {\n   return minByOrNull(selector)\n}\n\n@Deprecated(\"Use
minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince =
\"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>>
FloatArray.minBy(selector: (Float) -> R): Float? {\n   return minByOrNull(selector)\n}\n\n@Deprecated(\"Use
minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince =
\"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>>
DoubleArray.minBy(selector: (Double) -> R): Double? {\n   return
minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince
 = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>>
BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\n   return

minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R): Char? {\n   return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Array<out T>.minByOrNull(selector: (T) -> R): T? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> ByteArray.minByOrNull(selector: (Byte) -> R): Byte? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> ShortArray.minByOrNull(selector: (Short) -> R): Short? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> FloatArray.minByOrNull(selector: (Float) -> R): Float? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> DoubleArray.minByOrNull(selector: (Double) -> R): Double? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v)

{\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> BooleanArray.minByOrNull(selector: (Boolean) -> R): Boolean? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> CharArray.minByOrNull(selector: (Char) -> R): Char? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOf(selector: (Long) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOf(selector: (Char) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOf(selector: (Byte) -> Float):

Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n

    minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOf(selector: (Short) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function

 is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOf(selector: (Int) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun LongArray.minOf(selector: (Long) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue =

 minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOf(selector: (Double) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned

 result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOf(selector: (Boolean) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is

`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun CharArray.minOf(selector: (Char) -> Float): Float {\n   if (isEmpty()) throw
NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v =
selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minOf(selector: (T) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue =
selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n
minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the

 smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.minOf(selector: (Byte) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue
= selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n
minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <R : Comparable<R>> ShortArray.minOf(selector: (Short) -> R): R {\n   if (isEmpty()) throw
NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v =
selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOf(selector: (Int) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue =
selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n
minValue = v\n

    }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is
empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.minOf(selector: (Long) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var
minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n
    minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <R : Comparable<R>> FloatArray.minOf(selector: (Float) -> R): R {\n   if (isEmpty()) throw
NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v =

selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOf(selector: (Double) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var
minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n
    if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOf(selector: (Boolean) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var
minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n
    minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
 inline fun <R : Comparable<R>> CharArray.minOf(selector: (Char) -> R): R {\n   if (isEmpty()) throw
NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v =
selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n *
Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector:
(T) -> Double): Double? {\n   if (isEmpty()) return
 null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue
= minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) ->
Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n
   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element
 in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -
> Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n
    val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns
the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`
if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun IntArray.minOfOrNull(selector: (Int) -> Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOfOrNull(selector: (Long) -> Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n

 * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(selector: (Float) -> Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun DoubleArray.minOfOrNull(selector: (Double) -> Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n

    for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOfOrNull(selector: (Char) -> Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

 * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector: (T) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOfOrNull(selector: (Short) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOfOrNull(selector: (Int) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOfOrNull(selector: (Long) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(selector: (Float) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOfOrNull(selector: (Double) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOfOrNull(selector: (Char) -> Float): Float? {\n   if (isEmpty())

 return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out T>.minOfOrNull(selector: (T) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ByteArray.minOfOrNull(selector: (Byte) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ShortArray.minOfOrNull(selector: (Short) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex)

 {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> IntArray.minOfOrNull(selector: (Int) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <R : Comparable<R>> LongArray.minOfOrNull(selector: (Long) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> FloatArray.minOfOrNull(selector: (Float) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> DoubleArray.minOfOrNull(selector: (Double) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n

minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun <R : Comparable<R>> BooleanArray.minOfOrNull(selector: (Boolean) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharArray.minOfOrNull(selector: (Char) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return

minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array

is empty.\n
*\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.minOfWith(comparator: Comparator<in R>, selector: (Byte) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWith(comparator: Comparator<in

R>, selector: (Short) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.minOfWith(comparator: Comparator<in R>, selector: (Int) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v)

> 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the

array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWith(comparator:
Comparator<in R>, selector: (Long) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var
minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if
(comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the

 array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var
minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if
(comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <R> DoubleArray.minOfWith(comparator: Comparator<in R>, selector: (Double) -> R): R {\n   if
(isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n
val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n
return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.minOfWith(comparator:
Comparator<in R>, selector: (Boolean) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var
minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n

   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n
return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all
values produced by [selector] function applied to each element in the array.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.minOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var
minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if
(comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among

 all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n   if (isEmpty()) return null\n
var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if
(comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun <R> ByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue,

v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there

are no elements.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float)

-> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]

function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <R> CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n   if
(isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v =
selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return
minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is
`NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Array<out Double>.minOrNull(): Double? {\n   if
(isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   min = minOf(min,
e)\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any
of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun Array<out

 Float>.minOrNull(): Float? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n
val e = this[i]\n   min = minOf(min, e)\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Array<out T>.minOrNull():
T? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min
> e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.minOrNull(): Byte? {\n   if (isEmpty()) return null\n   var min =
this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun
ShortArray.minOrNull(): Short? {\n

   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e)
min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\npublic fun IntArray.minOrNull(): Int? {\n   if (isEmpty()) return null\n   var min =
this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun
LongArray.minOrNull(): Long? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n
val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun
FloatArray.minOrNull(): Float? {\n   if

 (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   min =
minOf(min, e)\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *
\n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.minOrNull():
Double? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n
min = minOf(min, e)\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no
elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharArray.minOrNull(): Char? {\n   if (isEmpty()) return null\n
var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return
min\n}\n\n@Deprecated(\"Use minWithOrNull instead.\",
ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\",

 hiddenSince = \"1.6\")\npublic fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n   return
minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\",
ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\",
ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\",
ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince

= \"1.5\", hiddenSince = \"1.6\")\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n   return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun LongArray.minWith(comparator: Comparator<in Long>): Long? {\n   return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n   return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun DoubleArray.minWith(comparator: Comparator<in Double>): Double? {\n   return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean? {\n   return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharArray.minWith(comparator: Comparator<in Char>): Char? {\n   return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Array<out T>.minWithOrNull(comparator: Comparator<in T>): T? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ByteArray.minWithOrNull(comparator: Comparator<in Byte>): Byte? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun ShortArray.minWithOrNull(comparator: Comparator<in Short>): Short? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun IntArray.minWithOrNull(comparator: Comparator<in Int>): Int? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun LongArray.minWithOrNull(comparator: Comparator<in Long>): Long? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun FloatArray.minWithOrNull(comparator: Comparator<in Float>): Float? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun DoubleArray.minWithOrNull(comparator: Comparator<in Double>): Double? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun BooleanArray.minWithOrNull(comparator: Comparator<in Boolean>): Boolean? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n

if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\npublic fun CharArray.minWithOrNull(comparator: Comparator<in Char>): Char? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Array<out T>.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun ByteArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n

*/\npublic fun ShortArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun IntArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun LongArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun FloatArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun DoubleArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun BooleanArray.none():

Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun CharArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ByteArray.none(predicate: (Byte) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n

*/\npublic inline fun ShortArray.none(predicate: (Short) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun FloatArray.none(predicate: (Float)

-> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample

samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharArray.none(predicate: (Char) -> Boolean): Boolean {\n   for (element in this)
 if (predicate(element)) return false\n   return true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEach(action: (T) -> Unit): Array<out T> {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEach(action: (Byte) -> Unit): ByteArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEach(action: (Short) -> Unit): ShortArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns
 the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEach(action: (Int) -> Unit): IntArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.onEach(action: (Long) -> Unit): LongArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEach(action: (Float) -> Unit): FloatArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEach(action:
 (Double) -> Unit): DoubleArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEach(action: (Boolean) -> Unit): BooleanArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.onEach(action: (Char) -> Unit): CharArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic
 inline fun <T> Array<out T>.onEachIndexed(action: (index: Int, T) -> Unit): Array<out T> {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEachIndexed(action: (index: Int, Byte) -> Unit): ByteArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEachIndexed(action:
 (index: Int, Short) -> Unit): ShortArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEachIndexed(action: (index: Int, Int) -> Unit): IntArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and

returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.onEachIndexed(action: (index: Int, Long) -> Unit):

LongArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEachIndexed(action: (index: Int, Float) -> Unit): FloatArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEachIndexed(action: (index: Int, Double) -> Unit): DoubleArray {\n   return apply { forEachIndexed(action)

 }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.onEachIndexed(action: (index: Int, Char) -> Unit): CharArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator: S = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator

 value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in

 an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current

accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n

return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator: S = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n

 * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n

 * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n

 * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n

* Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n *

 Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n

 * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n

 * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n

 * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n   if (isEmpty())\n   return null\n   var accumulator: S = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first

element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the

 original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n

*/\n@SinceKotlin(\"1.4\")\npublic inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic

 inline fun IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) -> Int): Int? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun LongArray.reduceIndexedOrNull(operation: (index: Int, acc: Long, Long) -> Long): Long? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for

 (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with

 the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc: Double, Double) -> Double): Double? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to

right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n   if (isEmpty())\n   return null\n   var accumulator: S = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next

accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]\n * from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator: S = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]\n * from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null`

when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun DoubleArray.reduceRight(operation:

(Double, acc: Double) -> Double): Double {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator: S = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n   var index =

lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample

samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n

 while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n

  var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Array<out T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator: S = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n

   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun ByteArray.reduceRightIndexedOrNull(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right

 to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun ShortArray.reduceRightIndexedOrNull(operation: (index: Int, Short, acc: Short) -> Short): Short? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the

 array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun IntArray.reduceRightIndexedOrNull(operation: (index: Int, Int, acc: Int) -> Int): Int? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param

[operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun LongArray.reduceRightIndexedOrNull(operation: (index: Int, Long, acc: Long) -> Long): Long? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun FloatArray.reduceRightIndexedOrNull(operation: (index: Int, Float, acc: Float) -> Float): Float? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun DoubleArray.reduceRightIndexedOrNull(operation: (index: Int, Double, acc: Double) -> Double): Double? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Array<out T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator: S = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n

* \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun ByteArray.reduceRightOrNull(operation: (Byte, acc: Byte) -> Byte): Byte? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

 */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun ShortArray.reduceRightOrNull(operation: (Short, acc: Short) -> Short): Short? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun IntArray.reduceRightOrNull(operation: (Int, acc: Int) -> Int): Int? {\n   var

 index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n

 * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the

 array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator

value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

 */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

 */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun CharArray.reduceRightOrNull(operation: (Char,

 acc: Char) -> Char): Char? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R> Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result

 = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

 */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFold(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result

 = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

 */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFold(initial: R, operation: (acc: R, Short) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val

 result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFold(initial: R, operation: (acc: R, Int) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n

    val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.runningFold(initial: R, operation: (acc: R, Long) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n

    val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.runningFold(initial: R, operation: (acc: R, Float) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n

    val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.runningFold(initial: R, operation: (acc: R, Double) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n

    val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.runningFold(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n   if (isEmpty())

 return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n   if (isEmpty())

return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R> Array<out T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise

it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n

 * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n *

 to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns

 a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index,

 accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <R>

CharArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial)

 }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n *\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Array<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n   if (isEmpty()) return emptyList()\n   var accumulator: S = this[0]\n   val result = ArrayList<S>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n *\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduce(operation: (acc: Byte, Byte) -> Byte): List<Byte> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Byte>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n *\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation: (acc: Short, Short) -> Short): List<Short> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Short>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n *\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc: Int, Int) -> Int): List<Int> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Int>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n *\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduce(operation: (acc: Long, Long) -> Long): List<Long> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Long>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that

takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation: (acc: Float, Float) -> Float): List<Float> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Float>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation: (acc: Double, Double) -> Double): List<Double> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Double>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation: (acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Char>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

*/\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n   if (isEmpty()) return emptyList()\n   var accumulator: S = this[0]\n   val result = ArrayList<S>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte,

Byte) -> Byte): List<Byte> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Byte>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Short>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Int>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Long>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Float>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun

DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Double>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Char>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by

applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next

 accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline

 fun <R> LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values

 generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function

 should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates

 the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with

[initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic

 inline fun <T, R> Array<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli c inline fun <R> ByteArray.scanIndexed(initial:

 R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli c inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n

 * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli c inline fun <R> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]

 from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli c inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator

 value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n *

 \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n

 * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince

 = \"1.5\")\npublic inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun IntArray.sumBy(selector: (Int) -> Int): Int {\n   var sum: Int = 0\n   for

 (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun LongArray.sumBy(selector: (Long) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum +=

selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied

to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun BooleanArray.sumBy(selector: (Boolean) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic

 inline fun CharArray.sumBy(selector: (Char) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this)\n{\n

     sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun ShortArray.sumByDouble(selector: (Short) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this)\n{\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function

 applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this)\n{\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this)\n{\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince

 = \"1.5\")\npublic inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns

the sum of all values produced by [selector] function applied to each element in the array.\n *\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector:

 (Boolean) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector:

 (Short) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> Int):

 Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> Int): Int {\n

 var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> Int): Int {\n   var sum: Int

 = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> Long): Long {\n   var sum: Long = 0.toLong()\n

    for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> Long): Long {\n   var sum: Long = 0.toLong()\n

  for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element

 in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element

in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType s::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType s::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType s::class)\n@kotlin.internal.InlineOnly\npublic

 inline fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType s::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType s::class)\n@kotlin.internal.InlineOnly\npublic

 inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType s::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType s::class)\n@kotlin.internal.InlineOnly\npublic

 inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType

s::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt
{\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return
sum\n}\n\n/**\n * Returns the sum of all values

 produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> UInt): UInt {\n   var
sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong):
ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this)

 {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong
{\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector:

 (Short) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum +=
selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {\n
var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic

 inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for
(element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values
produced by [selector] function applied to each element in the array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong
{\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic

inline fun DoubleArray.sumOf(selector: (Double) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]

 function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> Array<T?>.requireNoNulls(): Array<T> {\n   for (element in this) {\n   if (element == null) {\n   throw IllegalArgumentException(\"null element found in $this.\")\n   }\n   }\n @Suppress(\"UNCHECKED_CAST\")\n   return this as Array<T>\n}\n\n/**\n * Splits the original array into pair of lists,\n *

 where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun <T> Array<out T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n   val first = ArrayList<T>()\n   val second = ArrayList<T>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>,

 List<Byte>> {\n   val first = ArrayList<Byte>()\n   val second = ArrayList<Byte>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n   val first = ArrayList<Short>()\n   val second = ArrayList<Short>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n return Pair(first, second)\n}\n\n/**\n * Splits the

 original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {\n   val first = ArrayList<Int>()\n   val second = ArrayList<Int>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun LongArray.partition(predicate:

(Long) -> Boolean): Pair<List<Long>, List<Long>> {\n   val first = ArrayList<Long>()\n   val second = ArrayList<Long>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n   val first = ArrayList<Float>()\n   val second = ArrayList<Float>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n   val first = ArrayList<Double>()\n   val second = ArrayList<Double>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n   val first = ArrayList<Boolean>()\n   val second = ArrayList<Boolean>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n   val first = ArrayList<Char>()\n   val second = ArrayList<Char>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample

samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> DoubleArray.zip(other: Array<out R>): List<Pair<Double, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

 *\npublic infix fun <R> BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n *\npublic infix fun <R> CharArray.zip(other: Array<out R>): List<Pair<Char, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <T, R, V> Array<out T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V):

 List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each

 pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V> ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V> IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until

 size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n *\npublic inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

 *\npublic inline fun <R, V> FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n

list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Iterable<R>): List<Pair<Short, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> LongArray.zip(other: Iterable<R>): List<Pair<Long, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> DoubleArray.zip(other: Iterable<R>): List<Pair<Double, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> BooleanArray.zip(other: Iterable<R>): List<Pair<Boolean, R>> {\n   return zip(other) { t1, t2 -> t1 to t2

}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> CharArray.zip(other: Iterable<R>): List<Pair<Char, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

*/\npublic inline fun <T, R, V> Array<out T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ByteArray.zip(other: Iterable<R>, transform: (a: Byte, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n

    var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> ShortArray.zip(other: Iterable<R>, transform: (a: Short, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n *

 using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> IntArray.zip(other: Iterable<R>, transform: (a: Int, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> LongArray.zip(other: Iterable<R>,

 transform: (a: Long, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> FloatArray.zip(other: Iterable<R>, transform: (a: Float, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n

    }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V>

DoubleArray.zip(other: Iterable<R>, transform: (a: Double, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> BooleanArray.zip(other: Iterable<R>, transform: (a: Boolean, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <R, V> CharArray.zip(other: Iterable<R>, transform: (a: Char, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun ByteArray.zip(other: ByteArray): List<Pair<Byte, Byte>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun ShortArray.zip(other: ShortArray): List<Pair<Short, Short>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun IntArray.zip(other: IntArray): List<Pair<Int, Int>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun LongArray.zip(other: LongArray): List<Pair<Long, Long>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun FloatArray.zip(other: FloatArray): List<Pair<Float, Float>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun DoubleArray.zip(other: DoubleArray): List<Pair<Double, Double>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun BooleanArray.zip(other: BooleanArray): List<Pair<Boolean, Boolean>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun CharArray.zip(other: CharArray): List<Pair<Char, Char>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

*/\npublic inline fun <V> ByteArray.zip(other: ByteArray, transform: (a: Byte, b: Byte) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> ShortArray.zip(other: ShortArray, transform: (a: Short, b: Short) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> IntArray.zip(other: IntArray, transform: (a: Int, b: Int) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> CharArray.zip(other: CharArray, transform: (a: Char, b: Char) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to

\"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   buffer.appendElement(element, transform)\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   if (transform != null)\n   buffer.append(transform(element))\n   else\n   buffer.append(element.toString())\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   if (transform != null)\n   buffer.append(transform(element))\n   else\n   buffer.append(element.toString())\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   if (transform != null)\n   buffer.append(transform(element))\n   else\n   buffer.append(element.toString())\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> LongArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   if (transform != null)\n   buffer.append(transform(element))\n   else\n   buffer.append(element.toString())\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return

buffer\n}\n\n/**\n * Appends the string from all the elements separated using
 [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can
specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed
by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
FloatArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence =
\"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n
    if (limit < 0 || count <= limit) {\n   if (transform != null)\n   buffer.append(transform(element))\n
    else\n   buffer.append(element.toString())\n   } else break\n   }\n   if (limit >=
 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends
the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n *
\n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
[limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
DoubleArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix:
CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? =
null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1)
buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   if (transform != null)\n
        buffer.append(transform(element))\n   else\n   buffer.append(element.toString())\n   } else
break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A :
Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\",
postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) ->
CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n
 for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n
if (transform != null)\n   buffer.append(transform(element))\n   else\n
buffer.append(element.toString())\n   } else break\n   }\n   if (limit >= 0 && count > limit)
buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable>
CharArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence =
\"\",
 limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? = null): A {\n
buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n
    if (limit < 0 || count <= limit) {\n   if (transform != null)\n   buffer.append(transform(element))\n
    else\n   buffer.append(element)\n   } else break\n   }\n   if (limit >= 0 && count > limit)
buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Creates a string from all the
elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection
could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will
be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n */\npublic

fun <T> Array<out T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun ByteArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun ShortArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun IntArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun LongArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun FloatArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun DoubleArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can

specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun BooleanArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could

be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun CharArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun <T> Array<out T>.asIterable(): Iterable<T> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic

fun ByteArray.asIterable(): Iterable<Byte> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun ShortArray.asIterable(): Iterable<Short> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun IntArray.asIterable(): Iterable<Int> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun LongArray.asIterable(): Iterable<Long> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements

when being iterated.\n */\npublic fun FloatArray.asIterable(): Iterable<Float> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun DoubleArray.asIterable(): Iterable<Double> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun BooleanArray.asIterable(): Iterable<Boolean> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun CharArray.asIterable(): Iterable<Char> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the

original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun <T> Array<out T>.asSequence(): Sequence<T> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ByteArray.asSequence(): Sequence<Byte> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ShortArray.asSequence(): Sequence<Short> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps

the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun IntArray.asSequence(): Sequence<Int> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *

Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun LongArray.asSequence(): Sequence<Long> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun FloatArray.asSequence(): Sequence<Float> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun DoubleArray.asSequence(): Sequence<Double> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun BooleanArray.asSequence(): Sequence<Boolean> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun CharArray.asSequence(): Sequence<Char> {\n   if (isEmpty()) return emptySequence()\n   return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Array<out Byte>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Array<out Short>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Array<out Int>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Array<out Long>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Array<out Float>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Array<out Double>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ByteArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ShortArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun IntArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun LongArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun FloatArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN

else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun DoubleArray.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   ++count\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Array<out Byte>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Array<out Short>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Array<out Int>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Array<out Long>.sum(): Long {\n   var sum: Long = 0L\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Array<out Float>.sum(): Float {\n   var sum: Float = 0.0f\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Array<out Double>.sum(): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ByteArray.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ShortArray.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun IntArray.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun LongArray.sum(): Long {\n   var sum: Long = 0L\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun FloatArray.sum(): Float {\n   var sum: Float = 0.0f\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun DoubleArray.sum(): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"RangesKt\")\n\npackage kotlin.ranges\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.random(): Long {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun IntRange.random(random: Random): Int {\n   try {\n   return random.nextInt(this)\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun LongRange.random(random: Random): Long {\n   try {\n   return random.nextLong(this)\n   } catch(e:

IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharRange.random(random: Random): Char {\n   try {\n   return random.nextInt(first.code, last.code + 1).toChar()\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.randomOrNull(): Int? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.randomOrNull(): Long? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.randomOrNull(): Char? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun IntRange.randomOrNull(random: Random): Int? {\n   if (isEmpty())\n   return null\n   return random.nextInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun LongRange.randomOrNull(random: Random): Long? {\n   if (isEmpty())\n   return null\n   return random.nextLong(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharRange.randomOrNull(random: Random): Char? {\n   if (isEmpty())\n   return null\n   return random.nextInt(first.code, last.code + 1).toChar()\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(element: Int?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element: Long?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element: Char?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Byte): Boolean {\n   return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Byte): Boolean {\n   return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Byte): Boolean {\n   return contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Byte): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n *

Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This
`contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince =
\"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value:
Byte): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous
semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\",
hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun
ClosedRange<Int>.contains(value: Double): Boolean {\n   return value.toIntExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@Deprecated(\"This `contains` operation

mixing integer and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince =
\"1.5\")\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value:
Double): Boolean {\n   return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince =
\"1.5\")\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value:
Double): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This

`contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince =
\"1.5\")\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun
ClosedRange<Short>.contains(value: Double): Boolean {\n   return value.toShortExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value:
Double): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this
range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous
semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\",
hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic

operator fun ClosedRange<Int>.contains(value: Float): Boolean {\n   return value.toIntExactOrNull().let { if (it !=
null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince
= \"1.5\")\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun
ClosedRange<Long>.contains(value: Float): Boolean {\n   return value.toLongExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince
= \"1.5\")\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic

operator fun ClosedRange<Byte>.contains(value: Float): Boolean {\n   return value.toByteExactOrNull().let { if (it
!= null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince
= \"1.5\")\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun
ClosedRange<Short>.contains(value: Float): Boolean {\n   return value.toShortExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n

*/\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Float): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n

 */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Int): Boolean {\n   return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Int): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Int): Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Int): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Int): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Long): Boolean {\n   return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Long): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Long): Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Long): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n

 */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Long): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Short): Boolean {\n   return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Short): Boolean {\n   return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value:

 Short): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Short): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n *

Checks if the specified [value] belongs to this range.\n *\/\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince = \"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Short): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Int.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Long.downTo(to: Byte): LongProgression {\n   return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this`

value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Byte.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Short.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Char.downTo(to: Char): CharProgression {\n   return CharProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Int.downTo(to: Int): IntProgression {\n   return IntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Long.downTo(to: Int): LongProgression {\n   return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the

returned progression is empty.\n *\/\npublic infix fun Byte.downTo(to: Int): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Short.downTo(to: Int): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Int.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the

specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Long.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\/\npublic infix fun Byte.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n

* If the [to] value is greater than `this` value the returned progression is empty.\n *\npublic infix fun Short.downTo(to:

 Long): LongProgression {\n   return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\npublic infix fun Int.downTo(to: Short): IntProgression {\n   return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\npublic infix fun Long.downTo(to: Short): LongProgression {\n   return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to]

 value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\npublic infix fun Byte.downTo(to: Short): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n *\npublic infix fun Short.downTo(to: Short): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n *\npublic fun IntProgression.reversed(): IntProgression {\n   return IntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction

 with the same step.\n *\npublic fun LongProgression.reversed(): LongProgression {\n   return LongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n *\npublic fun CharProgression.reversed(): CharProgression {\n   return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n *\npublic infix fun IntProgression.step(step: Int): IntProgression {\n   checkStepIsPositive(step > 0, step)\n   return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n *\npublic infix fun LongProgression.step(step: Long): LongProgression {\n   checkStepIsPositive(step > 0, step)\n   return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a

 progression that goes over the same range with the given step.\n *\npublic infix fun CharProgression.step(step: Int): CharProgression {\n   checkStepIsPositive(step > 0, step)\n   return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null\n}\n\ninternal fun Long.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun Short.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun Double.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toInt().toByte() else null\n}\n\ninternal fun Float.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat())

 this.toInt().toByte() else null\n}\n\ninternal fun Long.toIntExactOrNull(): Int? {\n   return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong()) this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n   return if (this in Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun Float.toIntExactOrNull(): Int? {\n   return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull(): Long? {\n   return if (this in Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun

Float.toLongExactOrNull(): Long? {\n   return if (this in Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun Int.toShortExactOrNull(): Short? {\n   return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt()) this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n   return if (this in Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun Double.toShortExactOrNull(): Short? {\n   return if (this in Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toInt().toShort() else null\n}\n\ninternal fun Float.toShortExactOrNull(): Short? {\n   return if (this in Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toInt().toShort() else null\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Byte): IntRange {\n   return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Byte): LongRange {\n   return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Byte): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Byte): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Char.until(to: Char): CharRange {\n   if (to <= '\\u0000') return CharRange.EMPTY\n   return this .. (to - 1).toChar()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Int): IntRange {\n   if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n   return this .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Int): LongRange {\n   return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Int): IntRange {\n   if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n   return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Int): IntRange {\n   if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n   return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or

equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Short): IntRange {\n return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns

 a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Short): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Short): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Short): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value

 if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastComparable\n */\npublic fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Byte.coerceAtLeast(minimumValue: Byte): Byte {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Short.coerceAtLeast(minimumValue: Short):

 Short {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Int.coerceAtLeast(minimumValue: Int): Int {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Long.coerceAtLeast(minimumValue: Long): Long {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]

 or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Float.coerceAtLeast(minimumValue: Float): Float {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Double.coerceAtLeast(minimumValue: Double): Double {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostComparable\n */\npublic fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T {\n return if (this > maximumValue)

 maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Byte.coerceAtMost(maximumValue: Byte): Byte {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Short.coerceAtMost(maximumValue: Short):

Short {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n

 * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Int.coerceAtMost(maximumValue: Int): Int {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Long.coerceAtMost(maximumValue: Long): Long {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Float.coerceAtMost(maximumValue: Float): Float {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Double.coerceAtMost(maximumValue: Double): Double {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun <T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n   if (minimumValue !== null && maximumValue !== null) {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n

        if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   }\n   else {\n   if (minimumValue !== null && this < minimumValue) return minimumValue\n   if (maximumValue !== null && this > maximumValue) return maximumValue\n   }\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n

    return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n

 * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return

this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n

   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Float.coerceIn(minimumValue: Float, maximumValue: Float): Float {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Double.coerceIn(minimumValue: Double, maximumValue: Double): Double {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInFloatingPointRange\n */\n@SinceKotlin(\"1.1\")\npublic fun <T : Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   // this < start equiv to this <= start && !(this >= start)\n   range.lessThanOrEquals(this, range.start) && !range.lessThanOrEquals(range.start, this) -> range.start\n   // this > end equiv to this >= end && !(this <= end)\n   range.lessThanOrEquals(range.endInclusive, this) && !range.lessThanOrEquals(this, range.endInclusive) -> range.endInclusive\n   else -> this\n   }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun <T : Comparable<T>> T.coerceIn(range: ClosedRange<T>): T {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<T>(range)\n

   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Int.coerceIn(range: ClosedRange<Int>): Int {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<Int>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n/**\n

 * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n

* @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Long.coerceIn(range: ClosedRange<Long>): Long {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<Long>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {\n\n   companion object {\n   /**\n   * A constant holding the minimum value an instance of UByte can have.\n   */\n   public const val MIN_VALUE: UByte = UByte(0)\n\n   /**\n   * A constant holding the maximum value an instance of UByte can have.\n   */\n   public const val MAX_VALUE: UByte = UByte(-1)\n\n   /**\n   * The number of bytes used to represent an instance of UByte in a binary form.\n   */\n   public const val SIZE_BYTES: Int = 1\n\n   /**\n   * The number of bits used to represent an instance of UByte in a binary form.\n   */\n   public const val SIZE_BITS: Int = 8\n   }\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   @Suppress(\"OVERRIDE_BY_INLINE\")\n   public override inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UShort): UInt =

this.toUInt().times(other.toUInt()))\n   /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n   public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n
/** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n   /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator
fun div(other: UByte): UInt = this.toUInt().div(other.toUInt()))\n   /** Divides this value by the other value,
truncating the result to an integer

that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UShort): UInt =
this.toUInt().div(other.toUInt()))\n   /** Divides this value by the other value, truncating the result to an integer that
is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UInt): UInt =
this.toUInt().div(other)\n   /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n   /**\n   * Calculates the remainder of truncating division of this value by the other
value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public
inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt()))\n   /**\n   * Calculates the
remainder of truncating division of this value by the other

value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public
inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt()))\n   /**\n   * Calculates the
remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the
divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)\n   /**\n   * Calculates the remainder of truncating division of this value by the other
value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n   /**\n   * Divides this value by
the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types,
the results of flooring division and truncating division are

the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: UByte): UInt =
this.toUInt().floorDiv(other.toUInt()))\n   /**\n   * Divides this value by the other value, flooring the result to an
integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and
truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other:
UShort): UInt = this.toUInt().floorDiv(other.toUInt()))\n   /**\n   * Divides this value by the other value, flooring
the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring
division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun
floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n   /**\n   * Divides this value by the other value,
flooring the result to an integer that is closer to negative infinity.\n

     * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n
@kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: ULong): ULong =
this.toULong().floorDiv(other)\n\n   /**\n   * Calculates the remainder of flooring division of this value by the
other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders
of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline
fun mod(other: UByte): UByte = this.toUInt().mod(other.toUInt()).toUByte()\n   /**\n   * Calculates the remainder
of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n
     * For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n
@kotlin.internal.InlineOnly\n   public inline fun mod(other: UShort):
 UShort = this.toUInt().mod(other.toUInt()).toUShort()\n   /**\n   * Calculates the remainder of flooring division
of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned
types, the remainders of flooring division and truncating division are the same.\n   */\n
@kotlin.internal.InlineOnly\n   public inline fun mod(other: UInt): UInt = this.toUInt().mod(other)\n   /**\n   *
Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less

than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n\n   /**\n   * Returns this value incremented by one.\n   *\n   * @sample samples.misc.Builtins.inc\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun inc(): UByte = UByte(data.inc())\n\n   /**\n   * Returns this value decremented by one.\n   *\n   * @sample samples.misc.Builtins.dec\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun dec(): UByte = UByte(data.dec())\n\n   /** Creates a range from this value to the specified [other] value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rangeTo(other: UByte): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n   /** Performs a bitwise AND operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)\n   /** Performs a bitwise OR operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)\n   /** Performs a bitwise XOR operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)\n   /** Inverts the bits in this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun inv(): UByte = UByte(data.inv())\n\n   /**\n   * Converts this [UByte] value to [Byte].\n   *\n   * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n   * the same numerical value as this `UByte`. Otherwise the result is negative.\n   *\n   * The resulting `Byte` value has the same binary representation as this `UByte` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toByte(): Byte = data\n   /**\n   * Converts this [UByte] value to [Short].\n   *\n   * The resulting `Short` value represents the same numerical value as this `UByte`.\n   *\n   * The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte` value,\n   * whereas the most significant 8 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n

    public inline fun toShort(): Short = data.toShort() and 0xFF\n   /**\n   * Converts this [UByte] value to [Int].\n   *\n   * The resulting `Int` value represents the same numerical value as this `UByte`.\n   *\n   * The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte` value,\n   * whereas the most significant 24 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toInt(): Int = data.toInt() and 0xFF\n   /**\n   * Converts this [UByte] value to [Long].\n   *\n   * The resulting `Long` value represents the same numerical value as this `UByte`.\n   *\n   * The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte` value,\n   * whereas the most significant 56 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toLong(): Long = data.toLong() and 0xFF\n\n   /** Returns this value. */\n

    @kotlin.internal.InlineOnly\n   public inline fun toUByte(): UByte = this\n   /**\n   * Converts this [UByte] value to [UShort].\n   *\n   * The resulting `UShort` value represents the same numerical value as this `UByte`.\n   *\n   * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `UByte` value,\n   * whereas the most significant 8 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\n   /**\n   * Converts this [UByte] value to [UInt].\n   *\n   * The resulting `UInt` value represents the same numerical value as this `UByte`.\n   *\n   * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `UByte` value,\n   * whereas the most significant 24 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\n

    /**\n   * Converts this [UByte] value to [ULong].\n   *\n   * The resulting `ULong` value represents the same numerical value as this `UByte`.\n   *\n   * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `UByte` value,\n   * whereas the most significant 56 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\n\n   /**\n   * Converts this [UByte] value to [Float].\n   *\n   * The resulting `Float` value represents the same numerical value as this `UByte`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toFloat(): Float = this.toInt().toFloat()\n   /**\n   * Converts this [UByte] value to [Double].\n   *\n   * The resulting `Double` value represents the same numerical value as this `UByte`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline

fun toDouble(): Double = this.toInt().toDouble()\n\n   public

 override fun toString(): String = toInt().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UByte].\n *\n * If this value is positive, the resulting `UByte` value represents the same numerical value as this `Byte`.\n *\n * The resulting `UByte` value has the same binary representation as this `Byte` value.\n *\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUByte(): UByte = UByte(this)\n/**\n * Converts this [Short] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Short`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Short` value.\n *\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Int] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Int`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Int` value.\n *\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Long] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Long` value.\n *\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUByte(): UByte = UByte(this.toByte())\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and

 Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt> {\n\n   companion object {\n   /**\n   * A constant holding the minimum value an instance of UInt can have.\n   */\n   public const val MIN_VALUE: UInt = UInt(0)\n\n   /**\n   * A constant holding the maximum value an instance of UInt can have.\n   */\n   public const val MAX_VALUE: UInt = UInt(-1)\n\n   /**\n   * The number of bytes used to represent an instance of UInt in a binary form.\n   */\n   public const val SIZE_BYTES: Int = 4\n\n   /**\n   * The number of bits used to represent an instance of UInt in a binary form.\n   */\n   public const val SIZE_BITS: Int = 32\n   }\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   @Suppress(\"OVERRIDE_BY_INLINE\")\n   public override inline operator fun compareTo(other: UInt): Int = uintCompare(this.data, other.data)\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n   /** Adds the other value to this value. */\n

@kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())\n /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UInt): UInt = UInt(this.data.minus(other.data))\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UShort): UInt = this.div(other.toUInt())\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UInt): UInt = uintDivide(this, other)\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n   /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\n   /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\n   /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UInt): UInt = uintRemainder(this, other)\n   /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n   /**\n   * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: UByte): UInt = this.floorDiv(other.toUInt())\n   /**\n   * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: UShort): UInt = this.floorDiv(other.toUInt())\n   /**\n   * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: UInt): UInt = div(other)\n   /**\n   * Divides this value

by the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: UByte): UByte = this.mod(other.toUInt()).toUByte()\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating division are the same.\n

    */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: UShort): UShort = this.mod(other.toUInt()).toUShort()\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: UInt): UInt = rem(other)\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n\n   /**\n   * Returns this value incremented by one.\n   * \n   * @sample samples.misc.Builtins.inc\n   */\n

    @kotlin.internal.InlineOnly\n   public inline operator fun inc(): UInt = UInt(data.inc())\n\n   /**\n   * Returns this value decremented by one.\n   * \n   * @sample samples.misc.Builtins.dec\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun dec(): UInt = UInt(data.dec())\n\n   /** Creates a range from this value to the specified [other] value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this, other)\n\n   /**\n   * Shifts this value left by the [bitCount] number of bits.\n   * \n   * Note that only the five lowest-order bits of the [bitCount] are used as the shift distance.\n   * The shift distance actually used is therefore always in the range `0..31`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\n\n   /**\n   * Shifts this value right by the [bitCount] number of bits, filling the leftmost bits\n

     with zeros.\n   * \n   * Note that only the five lowest-order bits of the [bitCount] are used as the shift distance.\n   * The shift distance actually used is therefore always in the range `0..31`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n\n   /** Performs a bitwise AND operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun and(other: UInt): UInt = UInt(this.data and other.data)\n   /** Performs a bitwise OR operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data)\n   /** Performs a bitwise XOR operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n   /** Inverts the bits in this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun inv(): UInt

 = UInt(data.inv())\n\n   /**\n   * Converts this [UInt] value to [Byte].\n   * \n   * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n   * the same numerical value as this `UInt`.\n   * \n   * The resulting `Byte` value is represented by the least significant 8 bits of this `UInt` value.\n   * Note that the resulting `Byte` value may be negative.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toByte(): Byte = data.toByte()\n   /**\n   * Converts this [UInt] value to [Short].\n   * \n   * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n   * the same numerical value as this `UInt`.\n   * \n   * The resulting `Short` value is represented by the least significant 16 bits of this `UInt` value.\n   * Note that the resulting `Short` value may be negative.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toShort(): Short = data.toShort()\n

    /**\n   * Converts this [UInt] value to [Int].\n   * \n   * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\n   * the same numerical value as this `UInt`. Otherwise the result is negative.\n   * \n   * The resulting `Int` value has the same binary representation as this `UInt` value.\n

*/\n   @kotlin.internal.InlineOnly\n   public inline fun toInt(): Int = data\n   /**\n   * Converts this [UInt] value to [Long].\n   *\n   * The resulting `Long` value represents the same numerical value as this `UInt`.\n   *\n   * The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,\n   * whereas the most significant 32 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF\n\n   /**\n   * Converts this [UInt] value to [UByte].\n   *\n   * If this value is less than or equals to

[UByte.MAX_VALUE], the resulting `UByte` value represents\n   * the same numerical value as this `UInt`.\n   *\n   * The resulting `UByte` value is represented by the least significant 8 bits of this `UInt` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUByte(): UByte = data.toUByte()\n   /**\n   * Converts this [UInt] value to [UShort].\n   *\n   * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n   * the same numerical value as this `UInt`.\n   *\n   * The resulting `UShort` value is represented by the least significant 16 bits of this `UInt` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUShort(): UShort = data.toUShort()\n   /** Returns this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun toUInt(): UInt = this\n   /**\n   * Converts this [UInt] value to [ULong].\n   *\n   * The resulting `ULong` value represents the same numerical value

as this `UInt`.\n   *\n   * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,\n   * whereas the most significant 32 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)\n\n   /**\n   * Converts this [UInt] value to [Float].\n   *\n   * The resulting value is the closest `Float` to this `UInt` value.\n   * In case when this `UInt` value is exactly between two `Float`s,\n   * the one with zero at least significant bit of mantissa is selected.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toFloat(): Float = this.toDouble().toFloat()\n   /**\n   * Converts this [UInt] value to [Double].\n   *\n   * The resulting `Double` value represents the same numerical value as this `UInt`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toDouble(): Double = uintToDouble(data)\n   public

override fun toString(): String = toLong().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `Byte` value,\n * whereas the most significant 24 bits are filled with the sign bit of this value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUInt(): UInt = UInt(this.toInt())\n/**\n * Converts this [Short] value to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.\n *\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,\n * whereas the most significant 16 bits are filled with the sign bit of this value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic

 inline fun Short.toUInt(): UInt = UInt(this.toInt())\n/**\n * Converts this [Int] value to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Int`.\n *\n * The resulting `UInt` value has the same binary representation as this `Int` value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUInt(): UInt = UInt(this)\n/**\n * Converts this [Long] value to [UInt].\n *\n * If this value is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UInt` value is represented by the least significant 32 bits of this `Long` value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUInt(): UInt =

 UInt(this.toInt())\n\n/**\n * Converts this [Float] value to [UInt].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())\n/**\n * Converts this [Double] value to [UInt].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n

/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Double.toUInt(): UInt = doubleToUInt(this)\n","/\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class UShort @PublishedApi internal constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {\n\n   companion object {\n   /**\n   * A constant holding the minimum value an instance of UShort can have.\n   */\n   public const val MIN_VALUE: UShort = UShort(0)\n\n   /**\n   * A constant holding the maximum value an instance of UShort can have.\n   */\n   public const val MAX_VALUE: UShort = UShort(-1)\n\n   /**\n   * The number of bytes used to represent an instance of UShort in a binary form.\n   */\n   public const val SIZE_BYTES: Int = 2\n\n   /**\n   * The number of bits used to represent an instance of UShort in a binary form.\n

*/\n   public const val SIZE_BITS: Int = 16\n   }\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   @Suppress(\"OVERRIDE_BY_INLINE\")\n   public override inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if

this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n

    /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public

 inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UShort): UInt =

this.toUInt().times(other.toUInt())\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UByte): UInt =
 this.toUInt().div(other.toUInt())\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n   /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\n
    /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n   /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n   /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n   /**\n   * Divides this value by the other value, flooring the result to an integer that is closer to negative
 infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n   /**\n   * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n   /**\n   * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n   /**\n
     * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: UByte): UByte = this.toUInt().mod(other.toUInt()).toUByte()\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating
 division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: UShort): UShort = this.toUInt().mod(other.toUInt()).toUShort()\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: UInt): UInt = this.toUInt().mod(other)\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n

* For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n\n   /**\n   * Returns this value incremented by one.\n   *\n   * @sample samples.misc.Builtins.inc\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun inc(): UShort = UShort(data.inc())\n\n   /**\n   * Returns this value decremented by one.\n   *\n   * @sample samples.misc.Builtins.dec\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun dec(): UShort = UShort(data.dec())\n\n   /** Creates a range from this value to the specified [other] value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n   /** Performs a bitwise AND operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun and(other: UShort): UShort = UShort(this.data and other.data)\n   /** Performs a bitwise OR operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\n   /** Performs a bitwise XOR operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)\n   /** Inverts the bits in this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun inv(): UShort = UShort(data.inv())\n\n   /**\n   * Converts this [UShort] value to [Byte].\n   *\n   * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n   * the same numerical value as this `UShort`.\n   *\n   * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort` value.\n   * Note that the resulting `Byte` value may be negative.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toByte(): Byte = data.toByte()\n   /**\n   * Converts this [UShort] value to [Short].\n   *\n   * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n   * the same numerical value as this `UShort`. Otherwise the result is negative.\n   *\n   * The resulting `Short` value has the same binary representation as this `UShort` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toShort(): Short = data\n   /**\n   * Converts this [UShort] value to [Int].\n   *\n   * The resulting `Int` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant 16 bits of the resulting `Int` value are the same as the bits of this `UShort` value,\n   * whereas the most significant 16 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toInt(): Int = data.toInt() and 0xFFFF\n   /**\n   * Converts this [UShort] value to [Long].\n   *\n   * The resulting `Long` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant 16 bits of the resulting `Long` value are the same as the bits of this `UShort` value,\n   * whereas the most significant 48 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toLong(): Long = data.toLong() and 0xFFFF\n\n   /**\n   * Converts this [UShort] value to [UByte].\n   *\n   * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n   * the same numerical value as this `UShort`.\n   *\n   * The resulting `UByte` value is represented by the least significant 8 bits of this `UShort` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUByte(): UByte = data.toUByte()\n   /** Returns this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun toUShort(): UShort = this\n   /**\n   * Converts this [UShort] value to [UInt].\n   *\n   * The resulting `UInt` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n   * whereas the most significant 16 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\n   /**\n   * Converts this [UShort] value to [ULong].\n   *\n   * The resulting `ULong` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort` value,\n   * whereas the most significant 48 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)\n\n   /**\n   * Converts this [UShort] value to [Float].\n   *\n   * The resulting `Float` value represents the same numerical value as this `UShort`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toFloat(): Float = this.toInt().toFloat()\n   /**\n   * Converts this [UShort] value to [Double].\n   *\n   * The resulting `Double` value

represents the same numerical value as this `UShort`.\n   *\\n   @kotlin.internal.InlineOnly\n   public inline fun toDouble(): Double = this.toInt().toDouble()\n\n   public override fun toString(): String = toInt().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `Byte` value,\n * whereas the most significant 8 bits are filled with the sign bit of this value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Short] value to [UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Short`.\n *\n * The resulting `UShort` value has the same binary

 representation as this `Short` value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.toUShort(): UShort = UShort(this)\n/**\n * Converts this [Int] value to [UShort].\n *\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `Int`.\n *\n * The resulting `UShort` value is represented by the least significant 16 bits of this `Int` value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Long] value to [UShort].\n *\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UShort` value is represented by the least significant 16

 bits of this `Long` value.\n

/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUShort(): UShort = UShort(this.toShort())\n","/\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n/**\n * A range of values of type `Char`.\n */\npublic class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {\n   override val start: Char get() = first\n   override val endInclusive: Char get() = last\n\n   override fun contains(value: Char): Boolean = first <= value && value <= last\n\n   /** \n   * Checks whether the range is empty.\n   *\n   * The range is empty if its start value is greater than the end value.\n   */\n   override fun

 isEmpty(): Boolean = first > last\n\n   override fun equals(other: Any?): Boolean =\n   other is CharRange && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * first.code + last.code)\n\n   override fun toString(): String = \"$first..$last\"\n\n   companion object {\n   /** An empty range of values of type Char. */\n   public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\n   }\n}\n\n/**\n * A range of values of type `Int`.\n */\npublic class IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int> {\n   override val start: Int get() = first\n   override val endInclusive: Int get() = last\n\n   override fun contains(value: Int): Boolean = first <= value && value <= last\n\n   /** \n   * Checks whether the range is empty.\n   *\n   * The range is empty if its start value is greater than the end value.\n

    */\n   override fun isEmpty(): Boolean = first > last\n\n   override fun equals(other: Any?): Boolean =\n   other is IntRange && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * first + last)\n\n   override fun toString(): String = \"$first..$last\"\n\n   companion object {\n   /** An empty range of values of type Int. */\n   public val EMPTY: IntRange = IntRange(1, 0)\n   }\n}\n\n/**\n * A range of values of type `Long`.\n */\npublic class LongRange(start: Long, endInclusive: Long) : LongProgression(start, endInclusive, 1), ClosedRange<Long> {\n   override val start: Long get() = first\n   override val endInclusive: Long get() = last\n\n   override fun contains(value: Long): Boolean = first <= value && value <= last\n\n   /** \n   * Checks whether the range is

empty.\n   *\n   * The range is empty if its start value is greater than the end value.\n   */\n   override fun isEmpty(): Boolean = first > last\n\n   override fun equals(other: Any?): Boolean =\n   other is LongRange && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\n\n   override fun toString(): String = \"$first..$last\"\n\n   companion object {\n   /** An empty range of values of type Long. */\n   public val EMPTY: LongRange = LongRange(1, 0)\n   }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\nimport kotlin.random.Random\n\ninternal object EmptyIterator : ListIterator<Nothing> {\n   override fun hasNext(): Boolean = false\n   override fun hasPrevious(): Boolean = false\n   override fun nextIndex(): Int = 0\n   override fun previousIndex(): Int = -1\n   override fun next(): Nothing = throw NoSuchElementException()\n   override fun previous(): Nothing = throw NoSuchElementException()\n}\n\ninternal object EmptyList : List<Nothing>, Serializable, RandomAccess {\n   private const val serialVersionUID: Long = -7390468764508069838L\n\n   override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()\n   override fun hashCode(): Int = 1\n   override fun toString(): String = \"[]\"\n\n   override val size: Int get() = 0\n   override fun isEmpty(): Boolean = true\n   override fun contains(element: Nothing): Boolean = false\n   override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\n\n   override fun get(index: Int): Nothing = throw IndexOutOfBoundsException(\"Empty list doesn't contain element at index $index.\")\n   override fun indexOf(element: Nothing): Int = -1\n   override fun lastIndexOf(element: Nothing): Int = -1\n\n   override fun iterator(): Iterator<Nothing> = EmptyIterator\n   override fun listIterator(): ListIterator<Nothing> = EmptyIterator\n   override fun listIterator(index: Int): ListIterator<Nothing> {\n   if (index != 0) throw IndexOutOfBoundsException(\"Index: $index\")\n   return EmptyIterator\n   }\n\n   override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n   if (fromIndex == 0 && toIndex == 0) return this\n   throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex\")\n   }\n\n   private fun readResolve(): Any = EmptyList\n}\n\ninternal fun <T> Array<out T>.asCollection(): Collection<T> = ArrayAsCollection(this, isVarargs = false)\n\nprivate class ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T> {\n   override val size: Int get() = values.size\n   override fun isEmpty(): Boolean = values.isEmpty()\n   override fun contains(element: T): Boolean = values.contains(element)\n   override fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }\n   override fun iterator(): Iterator<T> = values.iterator()\n   // override hidden toArray implementation to prevent copying of values array\n   public fun toArray(): Array<out Any?> = values.copyToArrayOfAny(isVarargs)\n}\n\n/**\n * Returns an empty read-only list. The returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n */\npublic fun <T> emptyList(): List<T> = EmptyList\n\n/**\n * Returns a new read-only list of given elements. The returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.readOnlyList\n */\npublic fun <T> listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()\n\n/**\n * Returns an empty read-only list. The returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> listOf(): List<T> = emptyList()\n\n/**\n * Returns an empty new [MutableList].\n * @sample samples.collections.Collections.Lists.emptyMutableList\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableListOf(): MutableList<T> = ArrayList()\n\n/**\n * Returns an empty new [ArrayList].\n * @sample samples.collections.Collections.Lists.emptyArrayList\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> arrayListOf(): ArrayList<T> = ArrayList()\n\n/**\n * Returns a new [MutableList] with the given elements.\n * @sample

samples.collections.Collections.Lists.mutableList\n */\npublic fun <T> mutableListOf(vararg elements: T): MutableList<T> =\n   if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new [ArrayList] with the given elements.\n * @sample samples.collections.Collections.Lists.arrayList\n */\npublic fun <T> arrayListOf(vararg elements: T): ArrayList<T> =\n   if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new read-only list either of single given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.listOfNotNull\n */\npublic fun <T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()\n\n/**\n * Returns a new read-only list only of those given elements, that are not null. The returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.listOfNotNull\n */\npublic fun <T : Any> listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()\n\n/**\n * Creates a new read-only list with the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each list element sequentially starting from the first one.\n * It should return the value for a list element given its index.\n *\n * @sample samples.collections.Collections.Lists.readOnlyListFromInitializer\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> List(size: Int, init: (index: Int) -> T): List<T> = MutableList(size, init)\n\n/**\n * Creates a new mutable list with the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each list element sequentially starting from the first one.\n * It should return the value for a list element given its index.\n *\n * @sample samples.collections.Collections.Lists.mutableListFromInitializer\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList<T> {\n   val list = ArrayList<T>(size)\n   repeat(size) { index -> list.add(init(index)) }\n   return list\n}\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given [builderAction]\n * and returning a read-only list with the same elements.\n *\n * The list passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * The returned list is serializable (JVM).\n *\n * @sample samples.collections.Builders.Lists.buildListSample\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>.() -> Unit): List<E> {\n   contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n   return buildListInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildListInternal(builderAction: MutableList<E>.() -> Unit): List<E>\n\n/**\n * Builds a new read-only [List] by populating a [MutableList] using the given [builderAction]\n * and returning a read-only list with the same elements.\n *\n * The list passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * The returned list is serializable (JVM).\n *\n * [capacity] is used to hint the expected number of elements added in the [builderAction].\n *\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample samples.collections.Builders.Lists.buildListSampleWithCapacity\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>.() -> Unit): List<E> {\n   contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n   return buildListInternal(capacity, builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.() -> Unit): List<E>\n\n/**\n * Returns an [IntRange] of the valid indices for this collection.\n * @sample samples.collections.Collections.Collections.indicesOfCollection\n */\npublic val Collection<*>.indices: IntRange\n   get() = 0..size - 1\n\n/**\n * Returns the index of the last item in the list or -1 if the list is empty.\n *\n * @sample

samples.collections.Collections.Lists.lastIndexOfList\n *\npublic val <T> List<T>.lastIndex: Int\n   get() = this.size - 1\n\n/**\n * Returns `true` if the collection is not empty.\n * @sample samples.collections.Collections.Collections.collectionIsNotEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable collection is either null or empty.\n * @sample samples.collections.Collections.Collections.collectionIsNullOrEmpty\n *\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.isNullOrEmpty(): Boolean {\n   contract {\n   returns(false) implies (this@isNullOrEmpty != null)\n   }\n\n   return this == null || this.isEmpty()\n}\n\n/**\n * Returns this Collection if it's not `null` and the empty list otherwise.\n * @sample samples.collections.Collections.Collections.collectionOrEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.orEmpty(): Collection<T> = this ?: emptyList()\n\n/**\n * Returns this List if it's not `null` and the empty list otherwise.\n * @sample samples.collections.Collections.Lists.listOrEmpty\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()\n\n/**\n * Returns this collection if it's not empty\n * or the result of calling [defaultValue] function if the collection is empty.\n *\n * @sample samples.collections.Collections.Collections.collectionIfEmpty\n *\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R =\n   if (isEmpty()) defaultValue() else this\n\n/**\n * Checks if all elements in the specified collection are contained in this collection.\n *\n * Allows to overcome type-safety restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.\n * @sample samples.collections.Collections.Collections.collectionContainsAll\n *\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\n/**\n * Returns a new list with the elements of this list randomly shuffled\n * using the specified [random] instance as the source of randomness.\n *\n@SinceKotlin(\"1.3\")\npublic fun <T> Iterable<T>.shuffled(random: Random): List<T> = toMutableList().apply { shuffle(random) }\n\n\ninternal fun <T> List<T>.optimizeReadOnlyList() = when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this\n}\n\n/**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of its elements,\n * otherwise the result is undefined.\n *\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\n *\n * `null` value is considered to be less than any non-null value.\n *\n * @return the index of the element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample samples.collections.Collections.Lists.binarySearchOnComparable\n * @sample samples.collections.Collections.Lists.binarySearchWithBoundaries\n *\npublic fun <T : Comparable<T>> List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n   rangeCheck(size, fromIndex, toIndex)\n\n   var low = fromIndex\n   var high = toIndex - 1\n\n   while (low <= high) {\n   val mid = (low + high).ushr(1) // safe from overflows\n   val midVal = get(mid)\n   val cmp = compareValues(midVal, element)\n\n   if (cmp < 0)\n   low = mid + 1\n   else if (cmp > 0)\n   high = mid - 1\n   else\n   return mid // key found\n   }\n   return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the specified [comparator],\n * otherwise the result is undefined.\n *\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\n *\n * `null` value is considered to be less than any non-null value.\n *\n * @return the index of the element, if it is contained in the list within the specified range;\n * otherwise, the inverted

insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted according to the specified [comparator].\n * @sample samples.collections.Collections.Lists.binarySearchWithComparator\n */\npublic fun <T> List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n   rangeCheck(size, fromIndex, toIndex)\n\n   var low =
 fromIndex\n   var high = toIndex - 1\n\n   while (low <= high) {\n   val mid = (low + high).ushr(1) // safe from overflows\n   val midVal = get(mid)\n   val cmp = comparator.compare(midVal, element)\n\n   if (cmp < 0)\n   low = mid + 1\n   else if (cmp > 0)\n   high = mid - 1\n   else\n   return mid // key found\n   }\n   return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range for an element having the key returned by the specified [selector] function\n * equal to the provided [key] value using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.\n * otherwise the result is undefined.\n *\n * If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.\n *\n * `null` value is considered to be less than any non-null value.\n *\n * @return the index
 of the element with the specified [key], if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample samples.collections.Collections.Lists.binarySearchByKey\n */\npublic inline fun <T, K : Comparable<K>> List<T>.binarySearchBy(\n   key: K?,\n   fromIndex: Int = 0,\n   toIndex: Int = size,\n   crossinline selector: (T) -> K?\n): Int =\n   binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\n\n// do not introduce this overload --- too rare\n//public fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>, fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\n//   binarySearch(fromIndex, toIndex) { comparator.compare(selector(it), key) }\n\n/**\n * Searches this list or its range for an
 element for which the given [comparison] function returns zero using the binary search algorithm.\n *\n * The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements,\n * i.e. negative values come before zero and zeroes come before positive values.\n * Otherwise, the result is undefined.\n *\n * If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found.\n *\n * @param comparison function that returns zero when called on the list element being searched.\n * On the elements coming before the target element, the function must return negative values;\n * on the elements coming after the target element, the function must return positive values.\n *\n * @return the index of the found element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index
 at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample samples.collections.Collections.Lists.binarySearchWithComparisonFunction\n */\npublic fun <T> List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {\n   rangeCheck(size, fromIndex, toIndex)\n\n   var low = fromIndex\n   var high = toIndex - 1\n\n   while (low <= high) {\n   val mid = (low + high).ushr(1) // safe from overflows\n   val midVal = get(mid)\n   val cmp = comparison(midVal)\n\n   if (cmp < 0)\n   low = mid + 1\n   else if (cmp > 0)\n   high = mid - 1\n   else\n   return mid // key found\n   }\n   return -(low + 1) // key not found\n}\n\n/**\n * Checks that `from` and `to` are in\n * the range of [0..size] and throws an appropriate exception, if they aren't.\n */\nprivate fun rangeCheck(size: Int, fromIndex: Int, toIndex: Int) {\n   when {\n
        fromIndex > toIndex -> throw IllegalArgumentException(\"fromIndex ($fromIndex) is greater than toIndex ($toIndex).\")\n   fromIndex < 0 -> throw IndexOutOfBoundsException(\"fromIndex ($fromIndex) is less than zero.\")\n   toIndex > size -> throw IndexOutOfBoundsException(\"toIndex ($toIndex) is greater than size ($size).\")\n   }\n}\n\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal expect fun checkIndexOverflow(index: Int): Int\n\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal expect fun checkCountOverflow(count: Int): Int\n\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun throwIndexOverflow() { throw ArithmeticException(\"Index overflow has happened.\") }\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun

throwCountOverflow() { throw ArithmeticException(\"Count overflow has happened.\") }\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can

 be found in the license/LICENSE.txt file.\n
/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.\n\nprivate object EmptyMap : Map<Any?, Nothing>, Serializable {\n   private const val serialVersionUID: Long = 8246714829545688274\n\n   override fun equals(other: Any?): Boolean = other is Map<*, *> && other.isEmpty()\n   override fun hashCode(): Int = 0\n   override fun toString(): String = \"{}\"\n\n   override val size: Int get() = 0\n   override fun isEmpty(): Boolean = true\n\n   override fun containsKey(key: Any?): Boolean = false\n   override fun containsValue(value: Nothing): Boolean = false   override fun get(key: Any?): Nothing? = null\n   override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet\n   override val keys: Set<Any?> get() = EmptySet\n   override val values: Collection<Nothing> get() = EmptyList\n\n
    private fun readResolve(): Any = EmptyMap\n}\n\n/**\n * Returns an empty read-only map of specified type.\n *\n * The returned map is serializable (JVM).\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\npublic fun <K, V> emptyMap(): Map<K, V> = @Suppress(\"UNCHECKED_CAST\") (EmptyMap as Map<K, V>)\n\n/**\n * Returns a new read-only map with the specified contents, given as a list of pairs\n * where the first value is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * The returned map is serializable (JVM).\n *\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\npublic fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =\n   if (pairs.size > 0) pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()\n\n/**\n * Returns an empty read-only map.\n
 *\n * The returned map is serializable (JVM).\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mapOf(): Map<K, V> = emptyMap()\n\n/**\n * Returns an empty new [MutableMap].\n *\n * The returned map preserves the entry iteration order.\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\n *\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mutableMapOf(): MutableMap<K, V> = LinkedHashMap()\n\n/**\n * Returns a new [MutableMap] with the specified contents, given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * @sample samples.collections.Maps.Instantiation.mutableMapFromPairs\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\n
 */\npublic fun <K, V> mutableMapOf(vararg pairs: Pair<K, V>): MutableMap<K, V> =\n   LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n * Returns an empty new [HashMap].\n *\n * @sample samples.collections.Maps.Instantiation.emptyHashMap\n
*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> hashMapOf(): HashMap<K, V> = HashMap<K, V>()\n\n/**\n * Returns a new [HashMap] with the specified contents, given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * @sample samples.collections.Maps.Instantiation.hashMapFromPairs\n */\npublic fun <K, V> hashMapOf(vararg pairs: Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n * Returns an empty new [LinkedHashMap].\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\n\n/**\n * Returns a new [LinkedHashMap]

 with the specified contents, given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * @sample

samples.collections.Maps.Instantiation.linkedMapFromPairs\n */\npublic fun <K, V> linkedMapOf(vararg pairs: Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\n\n/**\n * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n * and returning a read-only map with the same key-value pairs.\n *\n * The map passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * Entries of the map are iterated in the order they were added by the [builderAction].\n *\n * The returned map is serializable (JVM).\n *\n * @sample samples.collections.Builders.Maps.buildMapSample\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> buildMap(@BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {\n   contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n   return buildMapInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>.() -> Unit): Map<K, V>\n\n/**\n * Builds a new read-only [Map] by populating a [MutableMap] using the given [builderAction]\n * and returning a read-only map with the same key-value pairs.\n *\n * The map passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * [capacity] is used to hint the expected number of pairs added in the [builderAction].\n *\n * Entries of the map are iterated in the order they were added by the [builderAction].\n *\n * The returned map is serializable (JVM).\n *\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample samples.collections.Builders.Maps.buildMapSample\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {\n   contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n   return buildMapInternal(capacity, builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>.() -> Unit): Map<K, V>\n\n/**\n * Calculate the initial capacity of a map.\n */\n@PublishedApi\ninternal expect fun mapCapacity(expectedSize: Int): Int\n\n/**\n * Returns `true` if this map is not empty.\n * @sample samples.collections.Maps.Usage.mapIsNotEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable map is either null or empty.\n * @sample samples.collections.Maps.Usage.mapIsNullOrEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>?.isNullOrEmpty(): Boolean {\n   contract {\n   returns(false) implies (this@isNullOrEmpty != null)\n   }\n\n   return this == null || isEmpty()\n}\n\n/**\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n *\n * @sample samples.collections.Maps.Usage.mapOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()\n\n/**\n * Returns this map if it's not empty\n * or the result of calling [defaultValue] function if the map is empty.\n *\n * @sample samples.collections.Maps.Usage.mapIfEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\n   if (isEmpty()) defaultValue() else this\n\n/**\n * Checks if the map contains the given key.\n *\n * This method allows to use the `x in map` syntax for checking whether an object is contained in the map.\n *\n * @sample samples.collections.Maps.Usage.containsKey\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\n\n/**\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.get(key: K): V? =\n   @Suppress(\"UNCHECKED_CAST\") (this as Map<K, V>).get(key)\n\n/**\n * Allows to use the index operator for storing values in a mutable map.\n */\n@kotlin.internal.InlineOnly\npublic

inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {\n   put(key, value)\n}\n\n/**\n *
Returns `true` if the map contains the specified [key].\n *\n * Allows to overcome type-safety restriction of
`containsKey` that requires to pass a key of type `K`.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
<@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =\n
@Suppress(\"UNCHECKED_CAST\") (this as Map<K, *>).containsKey(key)\n\n/**\n * Returns `true` if the map
maps one or more keys to the specified [value].\n *\n * Allows to overcome type-safety restriction of
`containsValue` that requires to pass a value of type `V`.\n *\n * @sample
samples.collections.Maps.Usage.containsValue\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")
// false warning, extension takes precedence in some cases\n@kotlin.internal.InlineOnly\npublic inline fun <K,
@kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean
 = this.containsValue(value)\n\n\n/**\n * Removes the specified key and its corresponding value from this map.\n
 *\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\n\n *
Allows to overcome type-safety restriction of `remove` that requires to pass a key of type `K`.\n
 */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K,
V>.remove(key: K): V? =\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableMap<K,
V>).remove(key)\n\n/**\n * Returns the key component of the map entry.\n *\n * This method allows to use
destructuring declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n *   // do
something with the key and the value\n * }\n * ```\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K,
V> Map.Entry<K, V>.component1(): K = key\n\n/**\n * Returns the value component of the map entry.\n *\n *
This method allows to use destructuring

 declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n *   // do something
with the key and the value\n * }\n * ```\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V>
Map.Entry<K, V>.component2(): V = value\n\n/**\n * Converts entry to [Pair] with key being first component and
value being second.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map.Entry<K, V>.toPair():
Pair<K, V> = Pair(key, value)\n\n/**\n * Returns the value for the given key, or the result of the [defaultValue]
function if there was no entry for the given key.\n *\n * @sample samples.collections.Maps.Usage.getOrElse\n
 */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>.getOrElse(key: K, defaultValue: () -> V): V
= get(key) ?: defaultValue()\n\n\ninternal inline fun <K, V> Map<K, V>.getOrElseNullable(key: K, defaultValue: ()
-> V): V {\n   val value = get(key)\n   if (value == null && !containsKey(key)) {\n   return defaultValue()\n
    } else {\n   @Suppress(\"UNCHECKED_CAST\")\n   return value as V\n   }\n}\n\n/**\n * Returns the
value for the given [key] or throws an exception if there is no such key in the map.\n *\n * If the map was created by
[withDefault], resorts to its `defaultValue` provider function\n * instead of throwing an exception.\n *\n * @throws
NoSuchElementException when the map doesn't contain a value for the specified key and\n * no implicit default
value was provided for that map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V> Map<K, V>.getValue(key: K): V
= getOrImplicitDefault(key)\n\n/**\n * Returns the value for the given key. If the key is not found in the map, calls
the [defaultValue] function,\n * puts its result into the map under the given key and returns it.\n *\n * Note that the
operation is not guaranteed to be atomic if the map is being modified concurrently.\n *\n * @sample
samples.collections.Maps.Usage.getOrPut\n */\npublic inline fun <K, V> MutableMap<K, V>.getOrPut(key:
 K, defaultValue: () -> V): V {\n   val value = get(key)\n   return if (value == null) {\n   val answer =
defaultValue()\n   put(key, answer)\n   answer\n   } else {\n   value\n   }\n}\n\n/**\n * Returns an
[Iterator] over the entries in the [Map].\n *\n * @sample samples.collections.Maps.Usage.forOverEntries\n
 */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map<out K, V>.iterator():
Iterator<Map.Entry<K, V>> = entries.iterator()\n\n/**\n * Returns a [MutableIterator] over the mutable entries in
the [MutableMap].\n *\n */\n@kotlin.jvm.JvmName(\"mutableIterator\")\n@kotlin.internal.InlineOnly\npublic
inline operator fun <K, V> MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> =
entries.iterator()\n\n/**\n * Populates the given [destination] map with entries having the keys of this map and the
values obtained\n * by applying the [transform] function to each entry in this [Map].\n */\npublic inline fun <K,

V, R, M : MutableMap<in K, in R>> Map<out K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\n   return entries.associateByTo(destination, { it.key }, transform)\n}\n\n/**\n * Populates the given [destination] map with entries having the keys obtained\n * by applying the [transform] function to each entry in this [Map] and the values of this map.\n *\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the value associated with the former one.\n */\npublic inline fun <K, V, R, M : MutableMap<in R, in V>> Map<out K, V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\n   return entries.associateByTo(destination, transform, { it.value })\n}\n\n/**\n * Puts all the given [pairs] into this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {\n   for ((key, value) in pairs) {\n   put(key, value)\n   }\n}\n\n/**\n * Puts all the elements of the given collection into this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {\n   for ((key, value) in pairs) {\n   put(key, value)\n   }\n}\n\n/**\n * Puts all the elements of the given sequence into this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit {\n   for ((key, value) in pairs) {\n   put(key, value)\n   }\n}\n\n/**\n * Returns a new map with entries having the keys of this map and the values obtained by applying the [transform]\n * function to each entry in this [Map].\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample samples.collections.Maps.Transformations.mapValues\n */\npublic inline fun <K, V, R> Map<out K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {\n   return mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a new Map with entries having the keys obtained by applying the [transform] function to each entry in this\n * [Map] and the values of this map.\n *\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the value associated with the former one.\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample samples.collections.Maps.Transformations.mapKeys\n */\npublic inline fun <K, V, R> Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\n   return mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a map containing all key-value pairs with keys matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filterKeys\n */\npublic inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {\n   val result = LinkedHashMap<K, V>()\n   for (entry in this) {\n   if (predicate(entry.key)) {\n   result.put(entry.key, entry.value)\n   }\n   }\n   return result\n}\n\n/**\n * Returns a map containing all key-value pairs with values matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filterValues\n */\npublic inline fun <K, V> Map<out K, V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n   val result = LinkedHashMap<K, V>()\n   for (entry in this) {\n   if (predicate(entry.value)) {\n   result.put(entry.key, entry.value)\n   }\n   }\n   return result\n}\n\n/**\n * Appends all entries matching the given [predicate] into the mutable map given as [destination] parameter.\n *\n * @return the destination map.\n * @sample samples.collections.Maps.Filtering.filterTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n   for (element in this) {\n   if (predicate(element)) {\n   destination.put(element.key, element.value)\n   }\n   }\n   return destination\n}\n\n/**\n * Returns a new map containing all key-value pairs matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filter\n */\npublic inline fun <K, V> Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n   return filterTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Appends all entries not matching the given [predicate] into the given [destination].\n *\n * @return the destination map.\n * @sample samples.collections.Maps.Filtering.filterNotTo\n

*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n   for (element in this) {\n   if (!predicate(element)) {\n destination.put(element.key, element.value)\n   }\n   }\n   return destination\n}\n\n/**\n * Returns a new map containing all key-value pairs not matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filterNot\n */\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n   return filterNotTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Returns a new map containing all key-value pairs from the given collection of pairs.\n *\n * The returned map preserves the entry iteration order of the original collection.\n * If any of two pairs would have the same key the last

one gets added to the map.\n */\npublic fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {\n   if (this is Collection) {\n   return when (size) {\n   0 -> emptyMap()\n   1 -> mapOf(if (this is List) this[0] else iterator().next())\n   else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n   }\n   }\n   return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\n   destination.apply { putAll(this@toMap) }\n\n/**\n * Returns a new map containing all key-value pairs from the given array of pairs.\n *\n * The returned map preserves the entry iteration order of the original array.\n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> =

 when (size) {\n   0 -> emptyMap()\n   1 -> mapOf(this[0])\n   else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =\n   destination.apply { putAll(this@toMap) }\n\n/**\n * Returns a new map containing all key-value pairs from the given sequence of pairs.\n *\n * The returned map preserves the entry iteration order of the original sequence.\n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M =\n   destination.apply

 { putAll(this@toMap) }\n\n/**\n * Returns a new read-only map containing all key-value pairs from the original map.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) {\n   0 -> emptyMap()\n   1 -> toSingletonMap()\n   else -> toMutableMap()\n}\n\n/**\n * Returns a new mutable map containing all key-value pairs from the original map.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =\n   destination.apply { putAll(this@toMap) }\n\n/**\n * Creates a new read-only map by replacing or adding an

 entry to this map from a given key-value [pair].\n *\n * The returned map preserves the entry iteration order of the original map.\n * The [pair] is iterated in the end if it has a unique key.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =\n   if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first, pair.second) }\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].\n *\n * The returned map preserves the entry iteration order of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =\n   if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs].\n *\n * The

returned map preserves the entry iteration order of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =\n   if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].\n *\n * The returned map preserves the entry iteration order of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =\n   LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from another [map].\n *\n * The returned map preserves the entry iteration order of the original map.\n * Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].\n */\npublic operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =\n   LinkedHashMap(this).apply { putAll(map) }\n\n\n/**\n * Appends or replaces the given [pair] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {\n   put(pair.first, pair.second)\n}\n\n/**\n * Appends or replaces all pairs from the given collection of [pairs] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {\n   putAll(pairs)\n}\n\n/**\n * Appends or replaces all pairs from the given array of [pairs] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {\n   putAll(pairs)\n}\n\n/**\n * Appends or replaces all pairs from the given sequence of [pairs] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {\n   putAll(pairs)\n}\n\n/**\n * Appends or replaces all entries from the given [map] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {\n   putAll(map)\n}\n\n/**\n * Returns a map containing all entries of the original map except the entry with the given [key].\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =\n   this.toMutableMap().apply { minusAssign(key) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] collection.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>): Map<K, V> =\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] array.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V> =\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] sequence.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V> =\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\n\n/**\n * Removes the entry with the given [key] from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {\n   remove(key)\n}\n\n/**\n * Removes all entries the keys of which are contained in the given [keys] collection from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {\n   this.keys.removeAll(keys)\n}\n\n/**\n * Removes all entries the keys of which are contained in the given [keys] array from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) {\n   this.keys.removeAll(keys)\n}\n\n/**\n * Removes all entries from the

keys of which are contained in the given [keys] sequence from this mutable map.\n
 /\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Sequence<K>) {\n   this.keys.removeAll(keys)\n}\n\n\n// do not expose for now @PublishedApi\ninternal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {\n   0 -> emptyMap()\n 1 -> toSingletonMapOrSelf()\n   else -> this\n}\n","/\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SetsKt\")\n@file:OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.\n\ninternal object EmptySet : Set<Nothing>, Serializable {\n   private const val serialVersionUID: Long = 3406603774387020532\n\n   override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\n   override fun hashCode(): Int = 0\n   override fun toString(): String = \"[]\"\n\n   override val size: Int get() = 0\n   override fun isEmpty(): Boolean = true\n   override fun contains(element: Nothing): Boolean = false\n   override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\n\n   override fun iterator(): Iterator<Nothing> = EmptyIterator\n\n   private fun readResolve(): Any = EmptySet\n}\n\n\n/**\n * Returns an empty read-only set. The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\n */\npublic fun <T> emptySet(): Set<T> = EmptySet\n\n/**\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.readOnlySet\n */\npublic fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()\n\n/**\n

 * Returns an empty read-only set. The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> setOf(): Set<T> = emptySet()\n\n/**\n * Returns an empty new [MutableSet].\n *\n * The returned set preserves the element iteration order.\n * @sample samples.collections.Collections.Sets.emptyMutableSet\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()\n\n/**\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.mutableSet\n */\npublic fun <T> mutableSetOf(vararg elements: T): MutableSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/** Returns an empty new [HashSet].

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T>
 = HashSet()\n\n/** Returns a new [HashSet] with the given elements. */\npublic fun <T> hashSetOf(vararg elements: T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\n\n/**\n * Returns an empty new [LinkedHashSet].\n * @sample samples.collections.Collections.Sets.emptyLinkedHashSet\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T>
= LinkedHashSet()\n\n/**\n * Returns a new [LinkedHashSet] with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.linkedHashSet\n
*/\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/**\n * Returns a new read-only set either with single given element, if it is not null, or empty set if the element is null.\n * The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.setOfNotNull\n
 */\n@SinceKotlin(\"1.4\")\npublic fun <T : Any> setOfNotNull(element: T?): Set<T> = if (element != null) setOf(element) else emptySet()\n\n/**\n * Returns a new read-only set only with those given elements, that are not null.\n * Elements of the set are iterated in the order they were specified.\n * The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.setOfNotNull */\n@SinceKotlin(\"1.4\")\npublic fun <T : Any> setOfNotNull(vararg elements: T?): Set<T> {\n   return elements.filterNotNullTo(LinkedHashSet())\n}\n\n/**\n * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-only set with the same elements.\n *\n * The

set passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * Elements of the set are iterated in the order they were added by the [builderAction].\n *\n * The

 returned set is serializable (JVM).\n *\n * @sample samples.collections.Builders.Sets.buildSetSample\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {\n   contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n   return buildSetInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>.() -> Unit): Set<E>\n\n/**\n * Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\n * and returning a read-only set with the same elements.\n *\n * The set passed as a receiver to the [builderAction] is valid only inside that function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * [capacity] is used to hint the expected number of elements added in the

 [builderAction].\n *\n * Elements of the set are iterated in the order they were added by the [builderAction].\n *\n * The returned set is serializable (JVM).\n *\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample samples.collections.Builders.Sets.buildSetSample\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>.() -> Unit): Set<E> {\n   contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n   return buildSetInternal(capacity, builderAction)\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal expect inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>.() -> Unit): Set<E>\n\n\n/** Returns this Set if it's not `null` and the empty set otherwise. */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>?.orEmpty(): Set<T> = this

 ?: emptySet()\n\ninternal fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\n   0 -> emptySet()\n   1 -> setOf(iterator().next())\n   else -> this\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

 */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n@file:Suppress(\"PLATFORM_CLASS_MAPPED_TO_KOTLIN\")\n\npackage kotlin.text\n\n/**\n * Parses the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n

 */\n@SinceKotlin(\"1.1\")\npublic fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)\n\n/**\n * Parses the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for

 string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toByteOrNull(radix: Int): Byte? {\n   val int = this.toIntOrNull(radix) ?: return null\n   if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\n   return int.toByte()\n}\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toShortOrNull(radix: Int): Short? {\n   val int = this.toIntOrNull(radix) ?: return null\n   if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null\n   return int.toShort()\n}\n\n/**\n *

 Parses the string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toIntOrNull(radix: Int): Int? {\n   checkRadix(radix)\n\n   val length = this.length\n   if (length == 0) return null\n\n   val start: Int\n   val isNegative: Boolean\n   val limit:

Int\n\n   val firstChar = this[0]\n   if (firstChar < '0') { // Possible leading sign\n   if (length == 1) return null // non-digit (possible sign) only, no digits after\n\n   start = 1\n\n   if (firstChar == '-') {\n   isNegative = true\n   limit = Int.MIN_VALUE\n

        } else if (firstChar == '+') {\n   isNegative = false\n   limit = -Int.MAX_VALUE\n   } else\n return null\n   } else {\n   start = 0\n   isNegative = false\n   limit = -Int.MAX_VALUE\n   }\n\n\n   val limitForMaxRadix = (-Int.MAX_VALUE) / 36\n   var limitBeforeMul = limitForMaxRadix\n   var result = 0\n for (i in start until length) {\n   val digit = digitOf(this[i], radix)\n\n   if (digit < 0) return null\n   if (result < limitBeforeMul) {\n   if (limitBeforeMul == limitForMaxRadix) {\n   limitBeforeMul = limit / radix\n\n   if (result < limitBeforeMul) {\n   return null\n   }\n   } else {\n return null\n   }\n   }\n\n   result *= radix\n\n   if (result < limit + digit) return null\n\n   result -= digit\n   }\n\n   return if (isNegative) result else -result\n}\n\n/**\n * Parses the string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n\n/**\n * Parses the string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toLongOrNull(radix: Int): Long? {\n   checkRadix(radix)\n\n   val length = this.length\n   if (length == 0) return null\n\n   val start: Int\n   val isNegative: Boolean\n   val limit: Long\n\n   val firstChar = this[0]\n   if (firstChar < '0') { // Possible leading sign\n   if (length == 1) return null // non-digit (possible sign) only, no digits after\n\n   start = 1\n\n   if (firstChar == '-') {\n   isNegative = true\n   limit = Long.MIN_VALUE\n

        } else if (firstChar == '+') {\n   isNegative = false\n   limit = -Long.MAX_VALUE\n   } else\n   return null\n   } else {\n   start = 0\n   isNegative = false\n   limit = -Long.MAX_VALUE\n   }\n\n\nval limitForMaxRadix = (-Long.MAX_VALUE) / 36\n\n   var limitBeforeMul = limitForMaxRadix\n   var result = 0L\n   for (i in start until length) {\n   val digit = digitOf(this[i], radix)\n\n   if (digit < 0) return null\n   if (result < limitBeforeMul) {\n   if (limitBeforeMul == limitForMaxRadix) {\n   limitBeforeMul = limit / radix\n\n   if (result < limitBeforeMul) {\n   return null\n   }\n   } else {\n return null\n   }\n   }\n\n   result *= radix\n\n   if (result < limit + digit) return null\n\n   result -= digit\n   }\n\n   return if (isNegative) result else -result\n}\n\n\ninternal fun numberFormatError(input: String): Nothing = throw NumberFormatException(\"Invalid number format: '$input'\")\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.contracts.*\nimport kotlin.jvm.JvmInline\nimport kotlin.math.*\n\n/**\n * Represents the amount of time one instant of time is away from another instant.\n *\n * A negative duration is possible in a situation when the second instant is earlier than the first one.\n *\n * The type can store duration values up to \u00b1146 years with nanosecond precision,\n * and up to \u00b1146 million years with millisecond precision.\n * If a duration-returning operation provided in `kotlin.time` produces a duration value that doesn't fit into the above range,\n * the returned `Duration` is infinite.\n *\n * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\n *\n * To construct a duration use either the extension function [toDuration],\n * or the extension properties [hours], [minutes], [seconds], and so on,\n * available on [Int], [Long], and [Double] numeric types.\n *\n * To get the value of this duration expressed in a particular [duration units][DurationUnit]\n * use the functions [toInt], [toLong], and [toDouble]\n * or the properties [inWholeHours], [inWholeMinutes], [inWholeSeconds], [inWholeNanoseconds], and so on.\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\n@JvmInline\npublic value class Duration internal constructor(private val rawValue: Long) : Comparable<Duration> {\n\n   private val value: Long get() = rawValue shr 1\n   private inline val unitDiscriminator: Int get() = rawValue.toInt() and 1\n   private fun isInNanos() = unitDiscriminator == 0\n   private fun isInMillis() = unitDiscriminator == 1\n   private val storageUnit get()

= if (isInNanos()) DurationUnit.NANOSECONDS else DurationUnit.MILLISECONDS\n\n   init {\n   if (durationAssertionsEnabled) {\n   if (isInNanos()) {\n   if (value !in -MAX_NANOS..MAX_NANOS) throw AssertionError(\"$value ns is out of nanoseconds range\")\n   } else {\n   if (value !in -MAX_MILLIS..MAX_MILLIS) throw AssertionError(\"$value ms is out of milliseconds range\")\n   if (value in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) throw AssertionError(\"$value ms is denormalized\")\n   }\n   }\n   }\n\n   companion object {\n   /** The duration equal to exactly 0 seconds. */\n   public val ZERO: Duration = Duration(0L)\n\n   /** The duration whose value is positive infinity. It is useful for representing timeouts that should never expire. */\n   public val INFINITE: Duration = durationOfMillis(MAX_MILLIS)\n   internal val NEG_INFINITE: Duration = durationOfMillis(-MAX_MILLIS)\n\n

/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */\n   @ExperimentalTime\n   public fun convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =\n   convertDurationUnit(value, sourceUnit, targetUnit)\n\n   // Duration construction extension properties in Duration companion scope\n\n   /** Returns a [Duration] equal to this [Int] number of nanoseconds. */\n   @kotlin.internal.InlineOnly\n   public inline val Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n   /** Returns a [Duration] equal to this [Long] number of nanoseconds. */\n   @kotlin.internal.InlineOnly\n   public inline val Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n   /**\n   * Returns a [Duration] equal to this [Double] number of nanoseconds.\n   *\n   * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n   *\n   * @throws IllegalArgumentException if this [Double] value is `NaN`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline val Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n\n   /** Returns a [Duration] equal to this [Int] number of microseconds. */\n   @kotlin.internal.InlineOnly\n   public inline val Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n   /** Returns a [Duration] equal to this [Long] number of microseconds. */\n   @kotlin.internal.InlineOnly\n   public inline val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n   /**\n   * Returns a [Duration] equal to this [Double] number of microseconds.\n   *\n   * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n   *\n   * @throws IllegalArgumentException if this [Double] value is `NaN`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n\n   /** Returns a [Duration] equal to this [Int] number of milliseconds. */\n   @kotlin.internal.InlineOnly\n   public inline val Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n   /** Returns a [Duration] equal to this [Long] number of milliseconds. */\n   @kotlin.internal.InlineOnly\n   public inline val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n   /**\n   * Returns a [Duration] equal to this [Double] number of milliseconds.\n   *\n   * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n   *\n   * @throws IllegalArgumentException if this [Double] value is `NaN`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n\n

/** Returns a [Duration] equal to this [Int] number of seconds. */\n   @kotlin.internal.InlineOnly\n   public inline val Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n   /** Returns a [Duration] equal to this [Long] number of seconds. */\n   @kotlin.internal.InlineOnly\n   public inline val Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n   /**\n   * Returns a [Duration] equal to this [Double] number of seconds.\n   *\n   * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n   *\n   * @throws IllegalArgumentException if this [Double] value is `NaN`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline val Double.seconds get() = toDuration(DurationUnit.SECONDS)\n\n\n   /** Returns a [Duration] equal to this [Int] number of minutes. */\n   @kotlin.internal.InlineOnly\n   public inline

val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n   /** Returns a [Duration] equal to this [Long] number of minutes. */\n   @kotlin.internal.InlineOnly\n   public inline val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n   /**\n   * Returns a [Duration] equal to this [Double] number of minutes.\n   *\n   * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n   *\n   * @throws IllegalArgumentException if this [Double] value is `NaN`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline val Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n   /** Returns a [Duration] equal to this [Int] number of hours. */\n   @kotlin.internal.InlineOnly\n   public inline val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n   /** Returns a [Duration] equal to this [Long] number of hours. */\n   @kotlin.internal.InlineOnly\n   public inline val Long.hours get() = toDuration(DurationUnit.HOURS)\n\n   /**\n   * Returns a [Duration] equal to this [Double] number of hours.\n   *\n   * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n   *\n   * @throws IllegalArgumentException if this [Double] value is `NaN`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline val Double.hours get() = toDuration(DurationUnit.HOURS)\n\n\n   /** Returns a [Duration] equal to this [Int] number of days. */\n   @kotlin.internal.InlineOnly\n   public inline val Int.days get() = toDuration(DurationUnit.DAYS)\n\n   /** Returns a [Duration] equal to this [Long] number of days. */\n   @kotlin.internal.InlineOnly\n   public inline val Long.days get() = toDuration(DurationUnit.DAYS)\n\n   /**\n   * Returns a [Duration] equal to this [Double] number of days.\n   *\n   * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n   *\n   * @throws IllegalArgumentException if this [Double] value is `NaN`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline val Double.days get() = toDuration(DurationUnit.DAYS)\n\n\n// deprecated static factory functions\n\n   /** Returns a [Duration] representing the specified [value] number of nanoseconds. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Int.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun nanoseconds(value: Int): Duration = value.toDuration(DurationUnit.NANOSECONDS)\n\n   /** Returns a [Duration] representing the specified [value] number of nanoseconds. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Long.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun nanoseconds(value: Long): Duration = value.toDuration(DurationUnit.NANOSECONDS)\n\n   /**\n   * Returns a [Duration] representing the specified [value] number of nanoseconds.\n   *\n   * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n   */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Double.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun nanoseconds(value: Double): Duration = value.toDuration(DurationUnit.NANOSECONDS)\n\n\n   /** Returns a [Duration] representing the specified [value] number of microseconds. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Int.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun microseconds(value: Int): Duration = value.toDuration(DurationUnit.MICROSECONDS)\n\n   /** Returns a [Duration] representing the specified [value] number of microseconds. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Long.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun microseconds(value: Long): Duration = value.toDuration(DurationUnit.MICROSECONDS)\n\n   /**\n

* Returns a [Duration] representing the specified [value] number of microseconds.\n   *\n   * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n   */\n   @SinceKotlin(\"1.5\")\n @ExperimentalTime\n   @Deprecated(\"Use 'Double.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n public fun microseconds(value: Double): Duration = value.toDuration(DurationUnit.MICROSECONDS)\n\n\n /** Returns a [Duration] representing the specified [value] number of milliseconds. */\n @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Int.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun milliseconds(value: Int): Duration = value.toDuration(DurationUnit.MILLISECONDS)\n\n   /** Returns a [Duration] representing the specified [value] number of milliseconds. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n @Deprecated(\"Use 'Long.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun milliseconds(value: Long): Duration = value.toDuration(DurationUnit.MILLISECONDS)\n\n   /**\n   * Returns a [Duration] representing the specified [value] number of milliseconds.\n   *\n   * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n   */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n @Deprecated(\"Use 'Double.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun milliseconds(value: Double): Duration = value.toDuration(DurationUnit.MILLISECONDS)\n\n\n   /** Returns a [Duration] representing the specified [value] number of seconds. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Int.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun seconds(value: Int): Duration = value.toDuration(DurationUnit.SECONDS)\n\n   /** Returns a [Duration] representing the specified [value] number of seconds. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Long.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun seconds(value: Long): Duration = value.toDuration(DurationUnit.SECONDS)\n\n   /**\n   * Returns a [Duration] representing the specified [value] number of seconds.\n   *\n   * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n   */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Double.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"value.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun seconds(value: Double): Duration = value.toDuration(DurationUnit.SECONDS)\n\n\n   /** Returns a [Duration] representing the specified [value] number of minutes. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Int.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"value.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun minutes(value: Int): Duration = value.toDuration(DurationUnit.MINUTES)\n\n   /** Returns a [Duration] representing the specified [value] number of minutes. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Long.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"value.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun minutes(value: Long): Duration = value.toDuration(DurationUnit.MINUTES)\n\n   /**\n   * Returns a [Duration] representing the specified [value] number of minutes.\n   *\n   * @throws IllegalArgumentException if the provided `Double` [value] is

`NaN`.\n   */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n
    @Deprecated(\"Use 'Double.minutes' extension property from Duration.Companion instead.\",
ReplaceWith(\"value.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun minutes(value: Double): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n\n   /** Returns a [Duration] representing the specified [value]
number of hours. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Int.hours'
extension property from Duration.Companion instead.\", ReplaceWith(\"value.hours\",
\"kotlin.time.Duration.Companion.hours\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public
fun hours(value: Int): Duration = value.toDuration(DurationUnit.HOURS)\n\n   /** Returns a [Duration]
representing the specified [value] number of hours. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n
@Deprecated(\"Use 'Long.hours' extension property from
 Duration.Companion instead.\", ReplaceWith(\"value.hours\", \"kotlin.time.Duration.Companion.hours\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun hours(value: Long): Duration =
value.toDuration(DurationUnit.HOURS)\n\n   /**\n   * Returns a [Duration] representing the specified
[value] number of hours.\n   *\n   * @throws IllegalArgumentException if the provided `Double` [value] is
`NaN`.\n   */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n   @Deprecated(\"Use 'Double.hours'
extension property from Duration.Companion instead.\", ReplaceWith(\"value.hours\",
\"kotlin.time.Duration.Companion.hours\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public
fun hours(value: Double): Duration = value.toDuration(DurationUnit.HOURS)\n\n\n   /** Returns a [Duration]
representing the specified [value] number of days. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n
@Deprecated(\"Use
 'Int.days' extension property from Duration.Companion instead.\", ReplaceWith(\"value.days\",
\"kotlin.time.Duration.Companion.days\"))\n   @DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public
fun days(value: Int): Duration = value.toDuration(DurationUnit.DAYS)\n\n   /** Returns a [Duration]
representing the specified [value] number of days. */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n
@Deprecated(\"Use 'Long.days' extension property from Duration.Companion instead.\",
ReplaceWith(\"value.days\", \"kotlin.time.Duration.Companion.days\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun days(value: Long): Duration =
value.toDuration(DurationUnit.DAYS)\n\n   /**\n   * Returns a [Duration] representing the specified [value]
number of days.\n   *\n   * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n
   */\n   @SinceKotlin(\"1.5\")\n   @ExperimentalTime\n
    @Deprecated(\"Use 'Double.days' extension property from Duration.Companion instead.\",
ReplaceWith(\"value.days\", \"kotlin.time.Duration.Companion.days\"))\n
@DeprecatedSinceKotlin(warningSince = \"1.6\")\n   public fun days(value: Double): Duration =
value.toDuration(DurationUnit.DAYS)\n\n   /**\n   * Parses a string that represents a duration and returns the
parsed [Duration] value.\n   *\n   * The following formats are accepted:\n   *\n   * - ISO-8601
Duration format, e.g. `P1DT2H3M4.058S`, see [toIsoString] and [parseIsoString].\n   * - The format of string
returned by the default [Duration.toString] and `toString` in a specific unit,\n   * e.g. `10s`, `1h 30m` or `-(1h
30m)`.\n   *\n   * @throws IllegalArgumentException if the string doesn't represent a duration in any of the
supported formats.\n   * @sample samples.time.Durations.parse\n   */\n   public fun parse(value:
 String): Duration = try {\n   parseDuration(value, strictIso = false)\n   } catch (e:
IllegalArgumentException) {\n   throw IllegalArgumentException(\"Invalid duration string format: '$value'.\",
e)\n   }\n\n   /**\n   * Parses a string that represents a duration in ISO-8601 format and returns the parsed
[Duration] value.\n   *\n   * @throws IllegalArgumentException if the string doesn't represent a duration in
ISO-8601 format.\n   * @sample samples.time.Durations.parseIsoString\n   */\n   public fun
parseIsoString(value: String): Duration = try {\n   parseDuration(value, strictIso = true)\n   } catch (e:
IllegalArgumentException) {\n   throw IllegalArgumentException(\"Invalid ISO duration string format:
'$value'.\", e)\n   }\n\n   /**\n   * Parses a string that represents a duration and returns the parsed [Duration]

value,\n   * or `null` if the string doesn't represent a duration in any of the supported formats.\n   *\n   * The following formats are accepted:\n   *\n   * - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S`, see [toIsoString] and [parseIsoString].\n   * - The format of string returned by the default [Duration.toString] and `toString` in a specific unit,\n   * e.g. `10s`, `1h 30m` or `-(1h 30m)`.\n   * @sample samples.time.Durations.parse\n   */\n   public fun parseOrNull(value: String): Duration? = try {\n   parseDuration(value, strictIso = false)\n   } catch (e: IllegalArgumentException) {\n   null\n   }\n\n   /**\n   * Parses a string that represents a duration in ISO-8601 format and returns the parsed [Duration] value,\n   * or `null` if the string doesn't represent a duration in ISO-8601 format.\n   * @sample samples.time.Durations.parseIsoString\n   */\n   public fun parseIsoStringOrNull(value: String): Duration? = try {\n   parseDuration(value, strictIso = true)\n   } catch (e: IllegalArgumentException) {\n   null\n   }\n   }\n\n   // arithmetic operators\n\n   /** Returns the negative of this value. */\n   public operator fun unaryMinus(): Duration = durationOf(-value, unitDiscriminator)\n\n   /**\n   * Returns a duration whose value is the sum of this and [other] duration values.\n   *\n   * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n   * e.g. when adding infinite durations of different sign.\n   */\n   public operator fun plus(other: Duration): Duration {\n   when {\n   this.isInfinite() -> {\n   if (other.isFinite() || (this.rawValue xor other.rawValue >= 0))\n   return this\n   else\n   throw IllegalArgumentException(\"Summing infinite durations of different signs yields an undefined result.\")\n   }\n   other.isInfinite() -> return other\n   }\n\n   return when {\n   this.unitDiscriminator == other.unitDiscriminator -> {\n   val result = this.value + other.value // never overflows long, but can overflow long63\n   when {\n   isInNanos() ->\n   durationOfNanosNormalized(result)\n   else ->\n   durationOfMillisNormalized(result)\n   }\n   }\n   this.isInMillis() ->\n   addValuesMixedRanges(this.value, other.value)\n   else ->\n   addValuesMixedRanges(other.value, this.value)\n   }\n   }\n\n   private fun addValuesMixedRanges(thisMillis: Long, otherNanos: Long): Duration {\n   val otherMillis = nanosToMillis(otherNanos)\n   val resultMillis = thisMillis + otherMillis\n   return if (resultMillis in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n   val otherNanoRemainder = otherNanos - millisToNanos(otherMillis)\n   durationOfNanos(millisToNanos(resultMillis) + otherNanoRemainder)\n   } else {\n   durationOfMillis(resultMillis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n   }\n   }\n\n   /**\n   * Returns a duration whose value is the difference between this and [other] duration values.\n   *\n   * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n   * e.g. when subtracting infinite durations of the same sign.\n   */\n   public operator fun minus(other: Duration): Duration = this + (-other)\n\n   /**\n   * Returns a duration whose value is this duration value multiplied by the given [scale] number.\n   *\n   * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n   * e.g. when multiplying an infinite duration by zero.\n   */\n   public operator fun times(scale: Int): Duration {\n   if (isInfinite()) {\n   return when {\n   scale == 0 -> throw IllegalArgumentException(\"Multiplying infinite duration by zero yields an undefined result.\")\n   scale > 0 -> this\n   else -> -this\n   }\n   }\n   if (scale == 0) return ZERO\n\n   val value = value\n   val result = value * scale\n   return if (isInNanos()) {\n   if (value in (MAX_NANOS / Int.MIN_VALUE)..(-MAX_NANOS / Int.MIN_VALUE)) {\n   // can't overflow nanos range for any scale\n   durationOfNanos(result)\n   } else {\n   if (result / scale == value) {\n   durationOfNanosNormalized(result)\n   } else {\n   val millis = nanosToMillis(value)\n   val remNanos = value - millisToNanos(millis)\n   val resultMillis = millis * scale\n   val totalMillis = resultMillis + nanosToMillis(remNanos * scale)\n   if (resultMillis / scale == millis && totalMillis xor resultMillis >= 0) {\n   durationOfMillis(totalMillis.coerceIn(-MAX_MILLIS..MAX_MILLIS))\n   } else {\n   if (value.sign * scale.sign > 0) INFINITE else NEG_INFINITE\n   }\n   }\n   }\n   } else

{\n   if (result / scale == value) {\n   durationOfMillis(result.coerceIn(-MAX_MILLIS..MAX_MILLIS))\n   } else {\n   if (value.sign * scale.sign > 0) INFINITE else NEG_INFINITE\n   }\n   }\n\n   /**\n   * Returns a duration whose value is this duration value multiplied by the given [scale] number.\n   *\n   * The operation may involve rounding when the result cannot be represented exactly with a [Double] number.\n   *\n   * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n   * e.g. when multiplying an infinite duration by zero.\n   */\n   public operator fun times(scale: Double): Duration {\n   val intScale = scale.roundToInt()\n   if (intScale.toDouble() == scale) {\n   return times(intScale)\n   }\n\n   val unit = storageUnit\n   val result = toDouble(unit) * scale\n   return result.toDuration(unit)\n   }\n\n   /**\n   * Returns a duration whose value is this duration value divided by the given [scale] number.\n   *\n   * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n   * e.g. when dividing zero duration by zero.\n   */\n   public operator fun div(scale: Int): Duration {\n   if (scale == 0) {\n   return when {\n   isPositive() -> INFINITE\n   isNegative() -> NEG_INFINITE\n   else -> throw IllegalArgumentException(\"Dividing zero duration by zero yields an undefined result.\")\n   }\n   }\n   if (isInNanos()) {\n   return durationOfNanos(value / scale)\n   } else {\n   if (isInfinite())\n   return this * scale.sign\n\n   val result = value / scale\n   if (result in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n   val rem = millisToNanos(value - (result * scale)) / scale\n   return durationOfNanos(millisToNanos(result) + rem)\n   }\n   return durationOfMillis(result)\n   }\n   }\n\n   /**\n   * Returns a duration whose value is this duration value divided by the given [scale] number.\n   *\n   * @throws IllegalArgumentException if the operation results in an undefined value for the given arguments,\n   * e.g. when dividing an infinite duration by infinity or zero duration by zero.\n   */\n   public operator fun div(scale: Double): Duration {\n   val intScale = scale.roundToInt()\n   if (intScale.toDouble() == scale && intScale != 0) {\n   return div(intScale)\n   }\n\n   val unit = storageUnit\n   val result = toDouble(unit) / scale\n   return result.toDuration(unit)\n   }\n\n   /** Returns a number that is the ratio of this and [other] duration values. */\n   public operator fun div(other: Duration): Double {\n   val coarserUnit = maxOf(this.storageUnit, other.storageUnit)\n   return this.toDouble(coarserUnit) / other.toDouble(coarserUnit)\n   }\n\n   /** Returns true, if the duration value is less than zero. */\n   public fun isNegative(): Boolean = rawValue < 0\n\n   /** Returns true, if the duration value is greater than zero. */\n   public fun isPositive(): Boolean = rawValue > 0\n\n   /** Returns true, if the duration value is infinite. */\n   public fun isInfinite(): Boolean = rawValue == INFINITE.rawValue || rawValue == NEG_INFINITE.rawValue\n\n   /** Returns true, if the duration value is finite. */\n   public fun isFinite(): Boolean = !isInfinite()\n\n   /** Returns the absolute value of this value. The returned value is always non-negative. */\n   public val absoluteValue: Duration get() = if (isNegative()) -this else this\n\n   override fun compareTo(other: Duration): Int {\n   val compareBits = this.rawValue xor other.rawValue\n   if (compareBits < 0 || compareBits.toInt() and 1 == 0) // different signs or same sign/same range\n   return this.rawValue.compareTo(other.rawValue)\n   // same sign/different ranges\n   val r = this.unitDiscriminator - other.unitDiscriminator // compare ranges\n   return if (isNegative()) -r else r\n   }\n\n\n   // splitting to components\n\n   /**\n   * Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\n   * The result of [action] is returned as the result of this function.\n   *\n   * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n   * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n   * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\n   * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;\n   * - `days` represents the whole number of days in this duration.\n   *\n   * Infinite durations are represented as either [Long.MAX_VALUE] days, or [Long.MIN_VALUE] days (depending on the sign of infinity),\n   * and zeroes in the lower components.\n   */\n   public inline fun <T> toComponents(action:

(days: Long, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T {\n   contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n   return action(inWholeDays, hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\n   }\n\n   /**\n   * Splits this

 duration into hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\n * The result of [action] is returned as the result of this function.\n   *\n   * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n   * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n   * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\n   * - `hours` represents the whole number of hours in this duration.\n   *\n   * Infinite durations are represented as either [Long.MAX_VALUE] hours, or [Long.MIN_VALUE] hours (depending on the sign of infinity),\n   * and zeroes in the lower components.\n   */\n   public inline fun <T> toComponents(action: (hours: Long, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T {\n   contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n   return action(inWholeHours, minutesComponent, secondsComponent, nanosecondsComponent)\n   }\n\n   /**\n   * Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these components.\n   * The result of [action] is returned as the result of this function.\n   *\n   * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n   * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n   * - `minutes` represents the whole number of minutes in this duration.\n   *\n   * Infinite durations are represented as either [Long.MAX_VALUE] minutes, or [Long.MIN_VALUE] minutes (depending on the sign of infinity),\n   * and zeroes in the lower components.\n   */\n   public inline fun <T> toComponents(action: (minutes: Long, seconds: Int, nanoseconds: Int) -> T): T {\n   contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n   return action(inWholeMinutes, secondsComponent, nanosecondsComponent)\n   }\n\n   /**\n   * Splits this duration into seconds, and nanoseconds and executes the given [action] with these components.\n   * The result of [action] is returned as the result of this function.\n   *\n   * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n   * - `seconds` represents the whole number of seconds in this duration.\n   *\n   * Infinite durations are represented as either [Long.MAX_VALUE] seconds, or [Long.MIN_VALUE] seconds (depending on the sign of infinity),\n   * and zero nanoseconds.\n   */\n   public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {\n   contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n   return action(inWholeSeconds, nanosecondsComponent)\n

    }\n\n   @PublishedApi\n   internal val hoursComponent: Int\n   get() = if (isInfinite()) 0 else (inWholeHours % 24).toInt()\n\n   @PublishedApi\n   internal val minutesComponent: Int\n   get() = if (isInfinite()) 0 else (inWholeMinutes % 60).toInt()\n\n   @PublishedApi\n   internal val secondsComponent: Int\n   get() = if (isInfinite()) 0 else (inWholeSeconds % 60).toInt()\n\n   @PublishedApi\n   internal val nanosecondsComponent: Int\n   get() = when {\n   isInfinite() -> 0\n   isInMillis() -> millisToNanos(value % 1_000).toInt()\n   else -> (value % 1_000_000_000).toInt()\n   }\n\n\n   // conversion to units\n\n   /**\n   * Returns the value of this duration expressed as a [Double] number of the specified [unit].\n   *\n   * The operation may involve rounding when the result cannot be represented exactly with a [Double] number.\n   *\n   * An infinite duration value is converted either to [Double.POSITIVE_INFINITY]

 or [Double.NEGATIVE_INFINITY] depending on its sign.\n   */\n   public fun toDouble(unit: DurationUnit): Double {\n   return when (rawValue) {\n   INFINITE.rawValue -> Double.POSITIVE_INFINITY\n   NEG_INFINITE.rawValue -> Double.NEGATIVE_INFINITY\n   else -> {\n   // TODO: whether it's ok to convert to Double before scaling\n   convertDurationUnit(value.toDouble(), storageUnit, unit)\n   }\n   }\n   }\n\n   /**\n   * Returns the value of this duration expressed as a [Long] number of the specified [unit].\n   *\n   * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n   * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n   * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n   *\n   * An infinite duration value is converted either to

[Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n   */\n   public fun
 toLong(unit: DurationUnit): Long {\n   return when (rawValue) {\n   INFINITE.rawValue ->
Long.MAX_VALUE\n   NEG_INFINITE.rawValue -> Long.MIN_VALUE\n   else ->
convertDurationUnit(value, storageUnit, unit)\n   }\n   }\n\n   /**\n   * Returns the value of this duration
expressed as an [Int] number of the specified [unit].\n   *\n   * If the result doesn't fit in the range of [Int] type, it
is coerced into that range:\n   * - [Int.MIN_VALUE] is returned if it's less than `Int.MIN_VALUE`,\n   * -
[Int.MAX_VALUE] is returned if it's greater than `Int.MAX_VALUE`.\n   *\n   * An infinite duration value is
converted either to [Int.MAX_VALUE] or [Int.MIN_VALUE] depending on its sign.\n   */\n   public fun
toInt(unit: DurationUnit): Int =\n   toLong(unit).coerceIn(Int.MIN_VALUE.toLong(),
Int.MAX_VALUE.toLong()).toInt()\n\n   /** The value of this duration expressed as a [Double] number of days.
*/\n   @ExperimentalTime\n   @Deprecated(\"Use
 inWholeDays property instead or convert toDouble(DAYS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.DAYS)\"))\n   public val inDays: Double get() =
toDouble(DurationUnit.DAYS)\n\n   /** The value of this duration expressed as a [Double] number of hours. */\n
@ExperimentalTime\n   @Deprecated(\"Use inWholeHours property instead or convert toDouble(HOURS) if a
double value is required.\", ReplaceWith(\"toDouble(DurationUnit.HOURS)\"))\n   public val inHours: Double
get() = toDouble(DurationUnit.HOURS)\n\n   /** The value of this duration expressed as a [Double] number of
minutes. */\n   @ExperimentalTime\n   @Deprecated(\"Use inWholeMinutes property instead or convert
toDouble(MINUTES) if a double value is required.\", ReplaceWith(\"toDouble(DurationUnit.MINUTES)\"))\n
public val inMinutes: Double get() = toDouble(DurationUnit.MINUTES)\n\n   /** The value of this duration
expressed as a [Double] number of seconds. */\n   @ExperimentalTime\n
    @Deprecated(\"Use inWholeSeconds property instead or convert toDouble(SECONDS) if a double value is
required.\", ReplaceWith(\"toDouble(DurationUnit.SECONDS)\"))\n   public val inSeconds: Double get() =
toDouble(DurationUnit.SECONDS)\n\n   /** The value of this duration expressed as a [Double] number of
milliseconds. */\n   @ExperimentalTime\n   @Deprecated(\"Use inWholeMilliseconds property instead or convert
toDouble(MILLISECONDS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.MILLISECONDS)\"))\n   public val inMilliseconds: Double get() =
toDouble(DurationUnit.MILLISECONDS)\n\n   /** The value of this duration expressed as a [Double] number of
microseconds. */\n   @ExperimentalTime\n   @Deprecated(\"Use inWholeMicroseconds property instead or
convert toDouble(MICROSECONDS) if a double value is required.\",
ReplaceWith(\"toDouble(DurationUnit.MICROSECONDS)\"))\n   public val inMicroseconds: Double get() =
toDouble(DurationUnit.MICROSECONDS)\n\n
   /** The value of this duration expressed as a [Double] number of nanoseconds. */\n   @ExperimentalTime\n
@Deprecated(\"Use inWholeNanoseconds property instead or convert toDouble(NANOSECONDS) if a double
value is required.\", ReplaceWith(\"toDouble(DurationUnit.NANOSECONDS)\"))\n   public val inNanoseconds:
Double get() = toDouble(DurationUnit.NANOSECONDS)\n\n   /**\n   * The value of this duration expressed as
a [Long] number of days.\n   *\n   * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n   */\n   public val inWholeDays: Long\n   get() =
toLong(DurationUnit.DAYS)\n\n   /**\n   * The value of this duration expressed as a [Long] number of hours.\n
*\n   * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending
on its sign.\n   */\n   public val inWholeHours: Long\n   get() = toLong(DurationUnit.HOURS)\n\n   /**\n   *
The value of this
 duration expressed as a [Long] number of minutes.\n   *\n   * An infinite duration value is converted either to
[Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n   */\n   public val inWholeMinutes:
Long\n   get() = toLong(DurationUnit.MINUTES)\n\n   /**\n   * The value of this duration expressed as a
[Long] number of seconds.\n   *\n   * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n   */\n   public val inWholeSeconds: Long\n   get() =
toLong(DurationUnit.SECONDS)\n\n   /**\n   * The value of this duration expressed as a [Long] number of

milliseconds.\n   *\n   * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n   */\n   public val inWholeMilliseconds: Long\n   get() {\n   return if (isInMillis() && isFinite()) value else toLong(DurationUnit.MILLISECONDS)\n   }\n\n   /**\n   * The value of this

 duration expressed as a [Long] number of microseconds.\n   *\n   * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n   * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n   * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n   *\n   * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n   */\n   public val inWholeMicroseconds: Long\n   get() = toLong(DurationUnit.MICROSECONDS)\n\n   /**\n   * The value of this duration expressed as a [Long] number of nanoseconds.\n   *\n   * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n   * - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n   * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n   *\n   * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n   */\n   public val inWholeNanoseconds: Long\n   get() {\n   val value = value\n   return when {\n   isInNanos() -> value\n   value > Long.MAX_VALUE / NANOS_IN_MILLIS -> Long.MAX_VALUE\n   value < Long.MIN_VALUE / NANOS_IN_MILLIS -> Long.MIN_VALUE\n   else -> millisToNanos(value)\n   }\n   }\n\n   // shortcuts\n\n   /**\n   * Returns the value of this duration expressed as a [Long] number of nanoseconds.\n   *\n   * If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\n   *\n   * The range of durations that can be expressed as a `Long` number of nanoseconds is approximately \u00b1292 years.\n   */\n   @ExperimentalTime\n   @Deprecated(\"Use inWholeNanoseconds property instead.\", ReplaceWith(\"this.inWholeNanoseconds\"))\n   public fun toLongNanoseconds(): Long = inWholeNanoseconds\n\n

   /**\n   * Returns the value of this duration expressed as a [Long] number of milliseconds.\n   *\n   * The value is coerced to the range of [Long] type, if it doesn't fit in that range, see the conversion [Double.toLong] for details.\n   *\n   * The range of durations that can be expressed as a `Long` number of milliseconds is approximately \u00b1292 million years.\n   */\n   @ExperimentalTime\n   @Deprecated(\"Use inWholeMilliseconds property instead.\", ReplaceWith(\"this.inWholeMilliseconds\"))\n   public fun toLongMilliseconds(): Long = inWholeMilliseconds\n\n   /**\n   * Returns a string representation of this duration value\n   * expressed as a combination of numeric components, each in its own unit.\n   *\n   * Each component is a number followed by the unit abbreviated name: `d`, `h`, `m`, `s`:\n   * `5h`, `1d 12h`, `1h 0m 30.340s`.\n   * The last component, usually seconds, can be a number with a fractional part.\n   *\n   * If the duration

 is less than a second, it is represented as a single number\n   * with one of sub-second units: `ms` (milliseconds), `us` (microseconds), or `ns` (nanoseconds):\n   * `140.884ms`, `500us`, `24ns`.\n   *\n   * A negative duration is prefixed with `-` sign and, if it consists of multiple components, surrounded with parentheses:\n   * `-12m` and `-(1h 30m)`.\n   *\n   * Special cases:\n   * - an infinite duration is formatted as `\"Infinity\"` or `\"-Infinity\"` without a unit.\n   *\n   * It's recommended to use [toIsoString] that uses more strict ISO-8601 format instead of this `toString`\n   * when you want to convert a duration to a string in cases of serialization, interchange, etc.\n   *\n   * @sample samples.time.Durations.toStringDefault\n   */\n   override fun toString(): String = when (rawValue) {\n   0L -> \"0s\"\n   INFINITE.rawValue -> \"Infinity\"\n   NEG_INFINITE.rawValue -> \"-Infinity\"\n   else -> {\n   val isNegative

 = isNegative()\n   buildString {\n   if (isNegative) append('-')\n   absoluteValue.toComponents { days, hours, minutes, seconds, nanoseconds ->\n   val hasDays = days != 0L\n   val hasHours = hours != 0\n   val hasMinutes = minutes != 0\n   val hasSeconds = seconds != 0 || nanoseconds != 0\n   var components = 0\n   if (hasDays) {\n   append(days).append('d')\n   components++\n   }\n   if (hasHours || (hasDays && (hasMinutes || hasSeconds))) {\n   if (components++ > 0) append(' ')\n   append(hours).append('h')\n   }\n   if (hasMinutes || (hasSeconds && (hasHours || hasDays)))

{\n   if (components++ > 0) append(' ')\n   append(minutes).append('m')\n   }\n   if (hasSeconds) {\n   if (components++ > 0) append(' ')\n   when {\n   seconds != 0 || hasDays || hasHours || hasMinutes ->\n   appendFractional(seconds, nanoseconds, 9, \"s\", isoZeroes = false)\n   nanoseconds >= 1_000_000 ->\n   appendFractional(nanoseconds / 1_000_000, nanoseconds % 1_000_000, 6, \"ms\", isoZeroes = false)\n   nanoseconds >= 1_000 ->\n   appendFractional(nanoseconds / 1_000, nanoseconds % 1_000, 3, \"us\", isoZeroes = false)\n   else ->\n   append(nanoseconds).append(\"ns\")\n   }\n   }\n   if (isNegative && components > 1) insert(1, '(').append(')')\n   }\n   }\n   }\n\n   private fun StringBuilder.appendFractional(whole:

 Int, fractional: Int, fractionalSize: Int, unit: String, isoZeroes: Boolean) {\n   append(whole)\n   if (fractional != 0) {\n   append('.')\n   val fracString = fractional.toString().padStart(fractionalSize, '0')\n   val nonZeroDigits = fracString.indexOfLast { it != '0' } + 1\n   when {\n   !isoZeroes && nonZeroDigits < 3 -> appendRange(fracString, 0, nonZeroDigits)\n   else -> appendRange(fracString, 0, ((nonZeroDigits + 2) / 3) * 3)\n   }\n   }\n   append(unit)\n   }\n\n   /**\n   * Returns a string representation of this duration value expressed in the given [unit]\n   * and formatted with the specified [decimals] number of digits after decimal point.\n   *\n   * Special cases:\n   * - an infinite duration is formatted as `\"Infinity\"` or `\"-Infinity\"` without a unit.\n   *\n   * @param decimals the number of digits after decimal point

 to show. The value must be non-negative.\n   * No more than 12 decimals will be shown, even if a larger number is requested.\n   *\n   * @return the value of duration in the specified [unit] followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n   *\n   * @throws IllegalArgumentException if [decimals] is less than zero.\n   *\n   * @sample samples.time.Durations.toStringDecimals\n   */\n   public fun toString(unit: DurationUnit, decimals: Int = 0): String {\n   require(decimals >= 0) { \"decimals must be not negative, but was $decimals\" }\n   val number = toDouble(unit)\n   if (number.isInfinite()) return number.toString()\n   return formatToExactDecimals(number, decimals.coerceAtMost(12)) + unit.shortName()\n   }\n\n\n   /**\n   * Returns an ISO-8601 based string representation of this duration.\n   *\n   * The returned value is presented in the format `PThHmMs.fS`, where `h`, `m`, `s` are the integer components

 of this duration (see [toComponents])\n   * and `f` is a fractional part of second. Depending on the roundness of the value the fractional part can be formatted with either\n   * 0, 3, 6, or 9 decimal digits.\n   *\n   * The infinite duration is represented as `\"PT9999999999999H\"` which is larger than any possible finite duration in Kotlin.\n   *\n   * Negative durations are indicated with the sign `-` in the beginning of the returned string, for example, `\"-PT5M30S\"`.\n   *\n   * @sample samples.time.Durations.toIsoString\n   */\n   public fun toIsoString(): String = buildString {\n   if (isNegative()) append('-')\n   append(\"PT\")\n   this@Duration.absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->\n   @Suppress(\"NAME_SHADOWING\")\n   var hours = hours\n   if (isInfinite()) {\n   // use large enough value instead of Long.MAX_VALUE\n   hours = 9_999_999_999_999\n

            }\n   val hasHours = hours != 0L\n   val hasSeconds = seconds != 0 || nanoseconds != 0\n   val hasMinutes = minutes != 0 || (hasSeconds && hasHours)\n   if (hasHours) {\n   append(hours).append('H')\n   }\n   if (hasMinutes) {\n   append(minutes).append('M')\n   }\n   if (hasSeconds || (!hasHours && !hasMinutes)) {\n   appendFractional(seconds, nanoseconds, 9, \"S\", isoZeroes = true)\n   }\n   }\n   }\n}\n\n\n// constructing from number of units\n// extension functions\n\n/** Returns a [Duration] equal to this [Int] number of the specified [unit]. */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic fun Int.toDuration(unit: DurationUnit): Duration {\n   return if (unit <= DurationUnit.SECONDS) {\n   durationOfNanos(convertDurationUnitOverflow(this.toLong(), unit, DurationUnit.NANOSECONDS))\n   } else\n   toLong().toDuration(unit)\n}\n\n/**

 Returns a [Duration] equal to this [Long] number of the specified [unit]. */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic fun Long.toDuration(unit:

DurationUnit): Duration {\n   val maxNsInUnit = convertDurationUnitOverflow(MAX_NANOS, DurationUnit.NANOSECONDS, unit)\n   if (this in -maxNsInUnit..maxNsInUnit) {\n   return durationOfNanos(convertDurationUnitOverflow(this, unit, DurationUnit.NANOSECONDS))\n   } else {\n   val millis = convertDurationUnit(this, unit, DurationUnit.MILLISECONDS)\n   return durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n   }\n}\n\n/**\n * Returns a [Duration] equal to this [Double] number of the specified [unit].\n *\n * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds.\n *\n * @throws IllegalArgumentException if this `Double` value is `NaN`.\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic fun Double.toDuration(unit:

 DurationUnit): Duration {\n   val valueInNs = convertDurationUnit(this, unit, DurationUnit.NANOSECONDS)\n   require(!valueInNs.isNaN()) { \"Duration value cannot be NaN.\" }\n   val nanos = valueInNs.roundToLong()\n   return if (nanos in -MAX_NANOS..MAX_NANOS) {\n   durationOfNanos(nanos)\n   } else {\n   val millis = convertDurationUnit(this, unit, DurationUnit.MILLISECONDS).roundToLong()\n   durationOfMillisNormalized(millis)\n   }\n}\n\n// constructing from number of units\n// deprecated extension properties\n\n/** Returns a [Duration] equal to this [Int] number of nanoseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of nanoseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of nanoseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.nanoseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.nanoseconds\", \"kotlin.time.Duration.Companion.nanoseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of microseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of microseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.microseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of microseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.microseconds' extension property from Duration.Companion

 instead.\", ReplaceWith(\"this.microseconds\", \"kotlin.time.Duration.Companion.microseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of milliseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of milliseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\",

\"kotlin.time.Duration.Companion.milliseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of milliseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.milliseconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.milliseconds\", \"kotlin.time.Duration.Companion.milliseconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n\n/** Returns a [Duration] equal to this [Int] number of seconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of seconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of seconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.seconds' extension property from Duration.Companion instead.\", ReplaceWith(\"this.seconds\", \"kotlin.time.Duration.Companion.seconds\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.seconds get() = toDuration(DurationUnit.SECONDS)\n\n\n/** Returns a [Duration] equal to this [Int] number of minutes. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"this.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Long] number of minutes. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"this.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**\n * Returns a [Duration] equal to this [Double] number of minutes.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.minutes' extension property from Duration.Companion instead.\", ReplaceWith(\"this.minutes\", \"kotlin.time.Duration.Companion.minutes\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n/** Returns a [Duration] equal to this [Int] number of hours. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"this.hours\", \"kotlin.time.Duration.Companion.hours\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Long] number of hours. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"this.hours\", \"kotlin.time.Duration.Companion.hours\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Long.hours get() = toDuration(DurationUnit.HOURS)\n\n/**\n * Returns a [Duration] equal to this [Double] number of hours.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.hours' extension property from Duration.Companion instead.\", ReplaceWith(\"this.hours\", \"kotlin.time.Duration.Companion.hours\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Double.hours get() = toDuration(DurationUnit.HOURS)\n\n\n/** Returns a [Duration] equal to this [Int] number of days. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Int.days' extension property from

Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.days
get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Long] number of days.
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Long.days' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic
 val Long.days get() = toDuration(DurationUnit.DAYS)\n\n/**\n * Returns a [Duration] equal to this [Double]
number of days.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Deprecated(\"Use 'Double.days' extension property from
Duration.Companion instead.\", ReplaceWith(\"this.days\",
\"kotlin.time.Duration.Companion.days\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a duration whose value is the specified
[duration] value multiplied by this number.
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic
inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n/**\n * Returns a duration whose
value is the specified [duration] value multiplied by this number.\n *\n * The operation may involve rounding when
the result cannot be represented exactly with
 a [Double] number.\n *\n * @throws IllegalArgumentException if the operation results in a `NaN` value.\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic
inline operator fun Double.times(duration: Duration): Duration = duration * this\n\n\nprivate fun
parseDuration(value: String, strictIso: Boolean): Duration {\n   var length = value.length\n   if (length == 0) throw
IllegalArgumentException(\"The string is empty\")\n   var index = 0\n   var result = Duration.ZERO\n   val
infinityString = \"Infinity\"\n   when (value[index]) {\n   '+', '-' -> index++\n   }\n   val hasSign = index > 0\n
val isNegative = hasSign && value.startsWith('-')\n   when {\n   length <= index ->\n   throw
IllegalArgumentException(\"No components\")\n   value[index] == 'P' -> {\n   if (++index == length) throw
IllegalArgumentException()\n   val nonDigitSymbols = \"+-.\"\n   var isTimeComponent
 = false\n   var prevUnit: DurationUnit? = null\n   while (index < length) {\n   if (value[index] ==
'T') {\n   if (isTimeComponent || ++index == length) throw IllegalArgumentException()\n
isTimeComponent = true\n   continue\n   }\n   val component =
value.substringWhile(index) { it in '0'..'9' || it in nonDigitSymbols }\n   if (component.isEmpty()) throw
IllegalArgumentException()\n   index += component.length\n   val unitChar =
value.getOrElse(index) { throw IllegalArgumentException(\"Missing unit for value $component\") }\n
index++\n   val unit = durationUnitByIsoChar(unitChar, isTimeComponent)\n   if (prevUnit != null
&& prevUnit <= unit) throw IllegalArgumentException(\"Unexpected order of duration components\")\n
prevUnit = unit\n   val dotIndex = component.indexOf('.')\n
        if (unit == DurationUnit.SECONDS && dotIndex > 0) {\n   val whole =
component.substring(0, dotIndex)\n   result += parseOverLongIsoComponent(whole).toDuration(unit)\n
        result += component.substring(dotIndex).toDouble().toDuration(unit)\n   } else {\n
result += parseOverLongIsoComponent(component).toDuration(unit)\n   }\n   }\n   }\n   strictIso
->\n   throw IllegalArgumentException()\n   value.regionMatches(index, infinityString, 0, length =
maxOf(length - index, infinityString.length), ignoreCase = true) -> {\n   result = Duration.INFINITE\n   }\n
    else -> {\n   // parse default string format\n   var prevUnit: DurationUnit? = null\n   var
afterFirst = false\n   var allowSpaces = !hasSign\n   if (hasSign && value[index] == '(' && value.last()
== ')') {\n   allowSpaces
 = true\n   if (++index == --length) throw IllegalArgumentException(\"No components\")\n   }\n
while (index < length) {\n   if (afterFirst && allowSpaces) {\n   index = value.skipWhile(index) {
it == ' ' }\n   }\n   afterFirst = true\n   val component = value.substringWhile(index) { it in
'0'..'9' || it == '.' }\n   if (component.isEmpty()) throw IllegalArgumentException()\n   index +=

component.length\n   val unitName = value.substringWhile(index) { it in 'a'..'z' }\n   index +=
unitName.length\n   val unit = durationUnitByShortName(unitName)\n   if (prevUnit != null &&
prevUnit <= unit) throw IllegalArgumentException(\"Unexpected order of duration components\")\n
prevUnit = unit\n   val dotIndex = component.indexOf('.')\n   if (dotIndex > 0) {\n
    val whole = component.substring(0, dotIndex)\n   result += whole.toLong().toDuration(unit)\n
    result += component.substring(dotIndex).toDouble().toDuration(unit)\n   if (index < length) throw
IllegalArgumentException(\"Fractional component must be last\")\n   } else {\n   result +=
component.toLong().toDuration(unit)\n   }\n   }\n   }\n   }\n   return if (isNegative) -result else
result\n}\n\n\nprivate fun parseOverLongIsoComponent(value: String): Long {\n   val length = value.length\n   var
startIndex = 0\n   if (length > 0 && value[0] in \"+-\") startIndex++\n   if ((length - startIndex) > 16 &&
(startIndex..value.lastIndex).all { value[it] in '0'..'9' }) {\n   // all chars are digits, but more than
ceiling(log10(MAX_MILLIS / 1000)) of them\n   return if (value[0] == '-') Long.MIN_VALUE else
Long.MAX_VALUE\n   }\n   // TODO: replace with just toLong after
 min JDK becomes 8\n   return if (value.startsWith(\"+\")) value.drop(1).toLong() else
value.toLong()\n}\n\n\nprivate inline fun String.substringWhile(startIndex: Int, predicate: (Char) -> Boolean):
String =\n   substring(startIndex, skipWhile(startIndex, predicate))\n\nprivate inline fun
String.skipWhile(startIndex: Int, predicate: (Char) -> Boolean): Int {\n   var i = startIndex\n   while (i < length &&
predicate(this[i])) i++\n   return i\n}\n\n\n\n\n\n// The ranges are chosen so that they are:\n// - symmetric relative to
zero: this greatly simplifies operations with sign, e.g. unaryMinus and minus.\n// - non-overlapping, but adjacent:
the first value that doesn't fit in nanos range, can be exactly represented in millis.\n\ninternal const val
NANOS_IN_MILLIS = 1_000_000\n// maximum number duration can store in nanosecond range\ninternal const
val MAX_NANOS = Long.MAX_VALUE / 2 / NANOS_IN_MILLIS * NANOS_IN_MILLIS - 1 // ends in
..._999_999\n// maximum number duration can store
 in millisecond range, also encodes an infinite value\ninternal const val MAX_MILLIS = Long.MAX_VALUE /
2\n// MAX_NANOS expressed in milliseconds\nprivate const val MAX_NANOS_IN_MILLIS = MAX_NANOS /
NANOS_IN_MILLIS\n\nprivate fun nanosToMillis(nanos: Long): Long = nanos / NANOS_IN_MILLIS\nprivate
fun millisToNanos(millis: Long): Long = millis * NANOS_IN_MILLIS\n\nprivate fun
durationOfNanos(normalNanos: Long) = Duration(normalNanos shl 1)\nprivate fun durationOfMillis(normalMillis:
Long) = Duration((normalMillis shl 1) + 1)\nprivate fun durationOf(normalValue: Long, unitDiscriminator: Int) =
Duration((normalValue shl 1) + unitDiscriminator)\nprivate fun durationOfNanosNormalized(nanos: Long) =\n   if
(nanos in -MAX_NANOS..MAX_NANOS) {\n   durationOfNanos(nanos)\n   } else {\n
durationOfMillis(nanosToMillis(nanos))\n   }\n\nprivate fun durationOfMillisNormalized(millis: Long) =\n   if
(millis in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n
durationOfNanos(millisToNanos(millis))\n
    } else {\n   durationOfMillis(millis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n   }\n\ninternal expect val
durationAssertionsEnabled: Boolean\n\ninternal expect fun formatToExactDecimals(value: Double, decimals: Int):
String\ninternal expect fun formatUpToDecimals(value: Double, decimals: Int): String","/*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n@file:kotlin.jvm.JvmName(\"UnsignedKt\")\npackage kotlin\n\n@PublishedApi\ninternal fun uintCompare(v1:
Int, v2: Int): Int = (v1 xor Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n@PublishedApi\ninternal fun
ulongCompare(v1: Long, v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2 xor
Long.MIN_VALUE)\n\n@PublishedApi\ninternal fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() /
v2.toLong()).toUInt()\n@PublishedApi\ninternal fun uintRemainder(v1:
 UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n// Division and remainder are based on Guava's
UnsignedLongs implementation\n// Copyright 2011 The Guava Authors\n\n@PublishedApi\ninternal fun
ulongDivide(v1: ULong, v2: ULong): ULong {\n   val dividend = v1.toLong()\n   val divisor = v2.toLong()\n   if
(divisor < 0) { // i.e., divisor >= 2^63:\n   return if (v1 < v2) ULong(0) else ULong(1)\n   }\n\n   // Optimization

- use signed division if both dividend and divisor < 2^63\n   if (dividend >= 0) {\n   return ULong(dividend / divisor)\n   }\n\n   // Otherwise, approximate the quotient, check, and correct if necessary.\n   val quotient = ((dividend ushr 1) / divisor) shl 1\n   val rem = dividend - quotient * divisor\n   return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0)\n\n}\n\n@PublishedApi\ninternal fun ulongRemainder(v1: ULong, v2: ULong): ULong {\n   val dividend = v1.toLong()\n   val divisor = v2.toLong()\n   if (divisor < 0) { // i.e., divisor >= 2^63:\n   return if (v1 < v2) {\n   v1 // dividend < divisor\n   } else {\n   v1 - v2 // dividend >= divisor\n   }\n   }\n\n   // Optimization - use signed modulus if both dividend and divisor < 2^63\n   if (dividend >= 0) {\n   return ULong(dividend % divisor)\n   }\n\n   // Otherwise, approximate the quotient, check, and correct if necessary.\n   val quotient = ((dividend ushr 1) / divisor) shl 1\n   val rem = dividend - quotient * divisor\n   return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)\n}\n\n@PublishedApi\ninternal fun doubleToUInt(v: Double): UInt = when {\n   v.isNaN() -> 0u\n   v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\n   v >= UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE\n   v <= Int.MAX_VALUE -> v.toInt().toUInt()\n   else -> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt()   // Int.MAX_VALUE < v < UInt.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun doubleToULong(v: Double): ULong = when {\n   v.isNaN() -> 0u\n   v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\n   v >= ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\n   v < Long.MAX_VALUE -> v.toLong().toULong()\n\n   // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not representable in Double, so don't handle them.\n   else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL   // Long.MAX_VALUE + 1 < v < ULong.MAX_VALUE\n}\n\n\n@PublishedApi\ninternal fun uintToDouble(v: Int): Double = (v and Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\n\n@PublishedApi\ninternal fun ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\n\ninternal fun ulongToString(v: Long): String = ulongToString(v, 10)\n\ninternal fun ulongToString(v: Long, base: Int): String {\n   if (v >= 0) return v.toString(base)\n\n   var quotient = ((v ushr 1) / base) shl 1\n   var rem = v - quotient * base\n   if (rem >= base) {\n   rem -= base\n   quotient += 1\n   }\n   return quotient.toString(base) + rem.toString(base)\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance that returns values through the [Iterator]\n * provided by that function.\n * @sample samples.collections.Iterables.Building.iterable\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T> = object : Iterable<T> {\n   override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * A wrapper over another [Iterable] (or any other object that can produce an [Iterator]) that returns\n * an indexing iterator.\n */\ninternal class IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\n   override fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\n}\n\n\n/**\n * Returns the size of this iterable if it is known, or `null` otherwise.\n */\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrNull(): Int? = if (this is Collection<*>) this.size else null\n\n/**\n * Returns the size of this iterable if it is known, or the specified [default] value otherwise.\n */\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\n\n\n/**\n * Returns a single list of all elements from all collections in the given collection.\n * @sample samples.collections.Iterables.Operations.flattenIterable\n */\npublic fun <T> Iterable<Iterable<T>>.flatten(): List<T> {\n   val result = ArrayList<T>()\n   for (element in this) {\n   result.addAll(element)\n   }\n   return result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this collection,\n * *second* list is built from the second values of each pair from this collection.\n * @sample samples.collections.Iterables.Operations.unzipIterable\n */\npublic fun <T, R> Iterable<Pair<T, R>>.unzip():

Pair<List<T>, List<R>> {\n   val expectedSize = collectionSizeOrDefault(10)\n   val listT = ArrayList<T>(expectedSize)\n   val listR = ArrayList<R>(expectedSize)\n   for (pair in this) {\n   listT.add(pair.first)\n   listR.add(pair.second)\n   }\n   return listT to listR\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n\npackage kotlin.sequences\n\nimport kotlin.random.Random\n\n/**\n

 * Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator]\n * provided by that function.\n * The values are evaluated lazily, and the sequence is potentially infinite.\n *\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {\n   override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.\n *\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n */\npublic fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()\n\n/**\n * Creates a sequence that returns the specified values.\n *\n * @sample samples.collections.Sequences.Building.sequenceOfValues\n */\npublic fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty())

 emptySequence() else elements.asSequence()\n\n/**\n * Returns an empty sequence.\n */\npublic fun <T> emptySequence(): Sequence<T> = EmptySequence\n\nprivate object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {\n   override fun iterator(): Iterator<Nothing> = EmptyIterator\n   override fun drop(n: Int) = EmptySequence\n   override fun take(n: Int) = EmptySequence\n}\n\n/**\n * Returns this sequence if it's not `null` and the empty sequence otherwise.\n * @sample samples.collections.Sequences.Usage.sequenceOrEmpty\n

 */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()\n\n\n/**\n * Returns a sequence that iterates through the elements either of this sequence\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\n *\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n */\n@SinceKotlin(\"1.3\")\npublic fun <T>

 Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\n   val iterator = this@ifEmpty.iterator()\n   if (iterator.hasNext()) {\n   yieldAll(iterator)\n   } else {\n   yieldAll(defaultValue())\n   }\n}\n\n/**\n * Returns a sequence of all elements from all sequences in this sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Sequences.Transformations.flattenSequenceOfSequences\n */\npublic fun <T> Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n/**\n * Returns a sequence of all elements from all iterables in this sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample samples.collections.Sequences.Transformations.flattenSequenceOfLists\n

 */\n@kotlin.jvm.JvmName(\"flattenSequenceOfIterable\")\npublic fun <T> Sequence<Iterable<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>):

 Sequence<R> {\n   if (this is TransformingSequence<*, *>) {\n   return (this as TransformingSequence<*, T>).flatten(iterator)\n   }\n   return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this sequence,\n * *second* list is built from the second values of each pair from this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Sequences.Transformations.unzip\n */\npublic fun <T, R> Sequence<Pair<T, R>>.unzip():\nPair<List<T>, List<R>> {\n   val listT = ArrayList<T>()\n   val listR = ArrayList<R>()\n   for (pair in this) {\n   listT.add(pair.first)\n   listR.add(pair.second)\n   }\n   return listT to listR\n}\n\n/**\n * Returns a sequence that yields elements of this sequence randomly shuffled.\n *\n * Note that every iteration of the sequence returns elements in a different order.\n *\n * The operation is _intermediate_

and _stateful_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)\n\n/**\n * Returns a sequence that yields elements of this sequence randomly shuffled\n * using the specified [random] instance as the source of randomness.\n *\n * Note that every iteration of the sequence returns elements in a different order.\n *\n * The operation is _intermediate_ and _stateful_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {\n   val buffer = toMutableList()\n   while (buffer.isNotEmpty()) {\n   val j = random.nextInt(buffer.size)\n   val last = buffer.removeLast()\n   val value = if (j < buffer.size) buffer.set(j, last) else last\n   yield(value)\n   }\n}\n\n/**\n * A sequence that returns the values from the underlying [sequence] that either match or do not match\n * the specified [predicate].\n *\n * @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise,\n * values for which the predicate returns `false` are returned\n */\ninternal class FilteringSequence<T>(\n   private val sequence: Sequence<T>,\n   private val sendWhen: Boolean = true,\n   private val predicate: (T) -> Boolean\n) : Sequence<T> {\n   override fun iterator(): Iterator<T> = object : Iterator<T> {\n   val iterator = sequence.iterator()\n   var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n   var nextItem: T? = null\n\n   private fun calcNext() {\n   while (iterator.hasNext()) {\n   val item = iterator.next()\n   if (predicate(item) == sendWhen) {\n   nextItem = item\n   nextState = 1\n   return\n   }\n   }\n   nextState = 0\n   }\n\n   override fun next(): T {\n   if (nextState == -1)\n   calcNext()\n   if (nextState == 0)\n   throw NoSuchElementException()\n   val result = nextItem\n   nextItem = null\n   nextState = -1\n   @Suppress(\"UNCHECKED_CAST\")\n   return result as T\n   }\n\n   override fun hasNext(): Boolean {\n   if (nextState == -1)\n   calcNext()\n   return nextState == 1\n   }\n   }\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying [sequence].\n */\ninternal class TransformingSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {\n   override fun iterator(): Iterator<R> = object : Iterator<R> {\n   val iterator = sequence.iterator()\n   override fun next(): R {\n   return transformer(iterator.next())\n   }\n\n   override fun hasNext(): Boolean {\n   return iterator.hasNext()\n   }\n   }\n\n   internal fun <E>

flatten(iterator: (R) -> Iterator<E>): Sequence<E> {\n   return FlatteningSequence<T, R, E>(sequence, transformer, iterator)\n   }\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying [sequence], where the transformer function takes the index of the value in the underlying\n * sequence along with the value itself.\n */\ninternal class TransformingIndexedSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {\n   override fun iterator(): Iterator<R> = object : Iterator<R> {\n   val iterator = sequence.iterator()\n   var index = 0\n   override fun next(): R {\n   return transformer(checkIndexOverflow(index++), iterator.next())\n   }\n\n   override fun hasNext(): Boolean {\n   return iterator.hasNext()\n   }\n   }\n}\n\n/**\n * A sequence which combines values from the underlying [sequence] with

their indices and returns them as\n * [IndexedValue] objects.\n */\ninternal class IndexingSequence<T>\nconstructor(private val sequence: Sequence<T>) : Sequence<IndexedValue<T>> {\n   override fun iterator(): Iterator<IndexedValue<T>> = object : Iterator<IndexedValue<T>> {\n   val iterator = sequence.iterator()\n   var index = 0\n   override fun next(): IndexedValue<T> {\n   return IndexedValue(checkIndexOverflow(index++), iterator.next())\n   }\n\n   override fun hasNext(): Boolean {\n   return iterator.hasNext()\n   }\n   }\n}\n\n/**\n * A sequence which takes the values from two parallel underlying sequences, passes them to the given\n * [transform] function and returns the values returned by that function. The sequence stops returning\n * values as soon as one of the underlying sequences stops returning values.\n */\ninternal class MergingSequence<T1, T2, V>\nconstructor(\n   private val sequence1: Sequence<T1>,\n   private val

sequence2: Sequence<T2>,\n   private val transform: (T1, T2) -> V\n) : Sequence<V> {\n   override fun iterator(): Iterator<V> = object : Iterator<V> {\n   val iterator1 = sequence1.iterator()\n   val iterator2 =

sequence2.iterator()\n   override fun next(): V {\n   return transform(iterator1.next(), iterator2.next())\n }\n\n   override fun hasNext(): Boolean {\n   return iterator1.hasNext() && iterator2.hasNext()\n   }\n }\n}\n\ninternal class FlatteningSequence<T, R, E>\nconstructor(\n   private val sequence: Sequence<T>,\n   private val transformer: (T) -> R,\n   private val iterator: (R) -> Iterator<E>\n) : Sequence<E> {\n   override fun iterator(): Iterator<E> = object : Iterator<E> {\n   val iterator = sequence.iterator()\n   var itemIterator: Iterator<E>? = null\n\n   override fun next(): E {\n   if (!ensureItemIterator())\n   throw NoSuchElementException()\n   return itemIterator!!.next()\n

        }\n\n   override fun hasNext(): Boolean {\n   return ensureItemIterator()\n   }\n\n   private fun ensureItemIterator(): Boolean {\n   if (itemIterator?.hasNext() == false)\n   itemIterator = null\n\n   while (itemIterator == null) {\n   if (!iterator.hasNext()) {\n   return false\n   } else {\n   val element = iterator.next()\n   val nextItemIterator = iterator(transformer(element))\n   if (nextItemIterator.hasNext()) {\n   itemIterator = nextItemIterator\n   return true\n

                }\n   }\n   }\n   return true\n   }\n   }\n}\n\ninternal fun <T, C, R> flatMapIndexed(source: Sequence<T>, transform: (Int, T) -> C, iterator: (C) -> Iterator<R>): Sequence<R> =\n   sequence {\n   var index = 0\n   for (element in source) {\n

            val result = transform(checkIndexOverflow(index++), element)\n   yieldAll(iterator(result))\n   }\n }\n\n/**\n * A sequence that supports drop(n) and take(n) operations\n */\ninternal interface DropTakeSequence<T> : Sequence<T> {\n   fun drop(n: Int): Sequence<T>\n   fun take(n: Int): Sequence<T>\n}\n\n/**\n * A sequence that skips [startIndex] values from the underlying [sequence]\n * and stops returning values right before [endIndex], i.e. stops at `endIndex - 1`\n */\ninternal class SubSequence<T>(\n   private val sequence: Sequence<T>,\n   private val startIndex: Int,\n   private val endIndex: Int\n) : Sequence<T>, DropTakeSequence<T> {\n\n   init {\n   require(startIndex >= 0) { \"startIndex should be non-negative, but is $startIndex\" }\n   require(endIndex >= 0) { \"endIndex should be non-negative, but is $endIndex\" }\n   require(endIndex >= startIndex) { \"endIndex should be not less than startIndex, but was $endIndex < $startIndex\" }\n   }\n\n   private val count: Int get() = endIndex - startIndex\n\n   override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, startIndex + n, endIndex)\n   override fun take(n: Int): Sequence<T> = if (n >= count) this else SubSequence(sequence, startIndex, startIndex + n)\n\n   override fun iterator() = object : Iterator<T> {\n\n   val iterator = sequence.iterator()\n   var position = 0\n\n   // Shouldn't be called from constructor to avoid premature iteration\n   private fun drop() {\n   while (position < startIndex && iterator.hasNext()) {\n   iterator.next()\n   position++\n   }\n   }\n\n   override fun hasNext(): Boolean {\n   drop()\n   return (position < endIndex) && iterator.hasNext()\n   }\n\n   override fun next(): T {\n   drop()\n   if (position >= endIndex)\n   throw NoSuchElementException()\n

            position++\n   return iterator.next()\n   }\n   }\n}\n\n/**\n * A sequence that returns at most [count] values from the underlying [sequence], and stops returning values\n * as soon as that count is reached.\n */\ninternal class TakeSequence<T>(\n   private val sequence: Sequence<T>,\n   private val count: Int\n) : Sequence<T>, DropTakeSequence<T> {\n\n   init {\n   require(count >= 0) { \"count must be non-negative, but was $count.\" }\n   }\n\n   override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, n, count)\n   override fun take(n: Int): Sequence<T> = if (n >= count) this else TakeSequence(sequence, n)\n\n   override fun iterator(): Iterator<T> = object : Iterator<T> {\n   var left = count\n   val iterator = sequence.iterator()\n\n   override fun next(): T {\n   if (left == 0)\n   throw NoSuchElementException()\n   left--\n   return iterator.next()\n

        }\n\n   override fun hasNext(): Boolean {\n   return left > 0 && iterator.hasNext()\n   }\n }\n}\n\n/**\n * A sequence that returns values from the underlying [sequence] while the [predicate] function returns\n * `true`, and stops returning values once the function returns `false` for the next element.\n */\ninternal class TakeWhileSequence<T>\nconstructor(\n   private val sequence: Sequence<T>,\n   private val predicate: (T) -> Boolean\n) : Sequence<T> {\n   override fun iterator(): Iterator<T> = object : Iterator<T> {\n   val iterator = sequence.iterator()\n   var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n   var nextItem: T?

= null\n\n   private fun calcNext() {\n   if (iterator.hasNext()) {\n   val item = iterator.next()\n   if (predicate(item)) {\n   nextState = 1\n   nextItem = item\n   return\n   }\n   }\n   nextState = 0\n   }\n\n   override fun next(): T {\n   if (nextState == -1)\n   calcNext() // will change nextState\n   if (nextState == 0)\n   throw NoSuchElementException()\n   @Suppress(\"UNCHECKED_CAST\")\n   val result = nextItem as T\n\n   // Clean next to avoid keeping reference on yielded instance\n   nextItem = null\n   nextState = -1\n   return result\n   }\n\n   override fun hasNext(): Boolean {\n   if (nextState == -1)\n   calcNext() // will change nextState\n   return nextState == 1\n   }\n   }\n}\n\n/**\n * A sequence that skips the specified number of values from the underlying [sequence] and returns\n * all values after that.\n */\ninternal class DropSequence<T>(\n   private val sequence: Sequence<T>,\n   private val count: Int\n) : Sequence<T>, DropTakeSequence<T> {\n   init {\n   require(count >= 0) { \"count must be non-negative, but was $count.\" }\n   }\n\n   override fun drop(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\n   override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else SubSequence(sequence, count, n1) }\n\n   override fun iterator(): Iterator<T> = object : Iterator<T> {\n   val iterator = sequence.iterator()\n   var left = count\n\n   // Shouldn't be called from constructor to avoid premature iteration\n   private fun drop() {\n   while (left > 0 && iterator.hasNext()) {\n   iterator.next()\n   left--\n   }\n   }\n\n   override fun next(): T {\n   drop()\n   return iterator.next()\n   }\n   override fun hasNext(): Boolean {\n   drop()\n   return iterator.hasNext()\n   }\n   }\n}\n\n/**\n * A sequence that skips the values from the underlying [sequence] while the given [predicate] returns `true` and returns\n * all values after that.\n */\ninternal class DropWhileSequence<T>\nconstructor(\n   private val sequence: Sequence<T>,\n   private val predicate: (T) -> Boolean\n) : Sequence<T> {\n\n   override fun iterator(): Iterator<T> = object : Iterator<T> {\n   val iterator = sequence.iterator()\n   var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration\n   var nextItem: T? = null\n\n   private fun drop() {\n   while (iterator.hasNext()) {\n   val item = iterator.next()\n   if (!predicate(item)) {\n   nextItem = item\n   dropState = 1\n   return\n   }\n   }\n   dropState = 0\n   }\n\n   override fun next(): T {\n   if (dropState == -1)\n   drop()\n\n   if (dropState == 1) {\n   @Suppress(\"UNCHECKED_CAST\")\n   val result = nextItem as T\n   nextItem = null\n   dropState = 0\n   return result\n   }\n   return iterator.next()\n   }\n\n   override fun hasNext(): Boolean {\n   if (dropState == -1)\n   drop()\n   return dropState == 1 || iterator.hasNext()\n   }\n   }\n}\n\ninternal class DistinctSequence<T, K>(private val source: Sequence<T>, private val keySelector: (T) -> K) : Sequence<T> {\n   override fun iterator(): Iterator<T> = DistinctIterator(source.iterator(), keySelector)\n}\n\nprivate class DistinctIterator<T, K>(private val source: Iterator<T>, private val keySelector: (T) -> K) : AbstractIterator<T>() {\n   private val observed = HashSet<K>()\n\n   override fun computeNext() {\n   while (source.hasNext()) {\n   val next = source.next()\n   val key = keySelector(next)\n\n   if (observed.add(key)) {\n   setNext(next)\n   return\n   }\n   }\n\n   done()\n   }\n}\n\nprivate class GeneratorSequence<T : Any>(private val getInitialValue: () -> T?, private val getNextValue: (T) -> T?) : Sequence<T> {\n   override fun iterator(): Iterator<T> = object : Iterator<T> {\n   var nextItem: T? = null\n   var nextState: Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue\n\n   private fun calcNext() {\n   nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!!)\n   nextState = if (nextItem == null) 0 else 1\n   }\n\n   override fun next(): T {\n   if (nextState < 0)\n   calcNext()\n\n   if (nextState == 0)\n   throw NoSuchElementException()\n   val result = nextItem as T\n   // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue\n   nextState = -1\n   return result\n   }\n\n   override fun hasNext(): Boolean {\n   if (nextState < 0)\n   calcNext()\n   return nextState == 1\n   }\n   }\n}\n\n/**\n * Returns a

wrapper sequence that provides values of this sequence, but ensures it can be iterated only one time.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * [IllegalStateException] is thrown on iterating the returned sequence for the second time and the following times.\n *\n *\/\npublic fun <T> Sequence<T>.constrainOnce(): Sequence<T> {\n   // as? does not work in js\n   //return this as? ConstrainedOnceSequence<T> ?: ConstrainedOnceSequence(this)\n   return if (this is ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)\n}\n\n\n/**\n * Returns a sequence which invokes the function to calculate the next value on each iteration until the function returns `null`.\n *\n * The returned sequence is constrained to be iterated only once.\n *\n * @see constrainOnce\n * @see kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequence\n *\/\npublic fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {\n   return GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()\n}\n\n/**\n * Returns a sequence defined by the starting value [seed] and the function [nextFunction],\n * which is invoked to calculate the next value based on the previous one on each iteration.\n *\n * The sequence produces values until it encounters first `null` value.\n * If [seed] is `null`, an empty sequence is produced.\n *\n * The sequence can be iterated multiple times, each time starting with [seed].\n *\n * @see kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequenceWithSeed\n *\/\n@kotlin.internal.LowPriorityInOverloadResolution\npublic fun <T : Any> generateSequence(seed: T?, nextFunction: (T) -> T?): Sequence<T>

 =\n   if (seed == null)\n   EmptySequence\n   else\n   GeneratorSequence({ seed }, nextFunction)\n\n/**\n * Returns a sequence defined by the function [seedFunction], which is invoked to produce the starting value,\n * and the [nextFunction], which is invoked to calculate the next value based on the previous one on each iteration.\n *\n * The sequence produces values until it encounters first `null` value.\n * If [seedFunction] returns `null`, an empty sequence is produced.\n *\n * The sequence can be iterated multiple times.\n *\n * @see kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequenceWithLazySeed\n *\/\npublic fun <T : Any> generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n   GeneratorSequence(seedFunction, nextFunction)\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"PreconditionsKt\")\n\npackage kotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean): Unit {\n   contract {\n   returns() implies value\n   }\n   require(value) { \"Failed requirement.\" }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n   contract {\n   returns() implies value\n   }\n   if (!value) {\n   val message = lazyMessage()\n   throw IllegalArgumentException(message.toString())\n   }\n}\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is null. Otherwise returns the not null value.\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> requireNotNull(value: T?): T {\n   contract {\n   returns() implies (value != null)\n   }\n   return requireNotNull(value) { \"Required value was null.\" }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failRequireNotNullWithLazyMessage\n *\/\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\n   contract {\n   returns() implies (value != null)\n   }\n\n   if (value == null) {\n   val message = lazyMessage()\n   throw IllegalArgumentException(message.toString())\n   } else {\n   return value\n   }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is false.\n *\n

* @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun check(value: Boolean): Unit {\n   contract {\n   returns() implies value\n   }\n   check(value) { \"Check failed.\" }\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\n   contract {\n   returns() implies value\n   }\n   if (!value) {\n   val message = lazyMessage()\n   throw IllegalStateException(message.toString())\n   }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> checkNotNull(value: T?): T {\n   contract {\n   returns() implies (value != null)\n   }\n   return checkNotNull(value) { \"Required value was null.\" }\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null.
Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> checkNotNull(value: T?, lazyMessage: () -> Any): T {\n   contract {\n   returns() implies (value != null)\n   }\n   if (value == null) {\n   val message = lazyMessage()\n   throw IllegalStateException(message.toString())\n   } else {\n   return value\n   }\n}\n\n/**\n * Throws an [IllegalStateException] with the given [message].\n *\n * @sample samples.misc.Preconditions.failWithError\n */\n@kotlin.internal.InlineOnly\npublic inline fun error(message: Any): Nothing = throw IllegalStateException(message.toString())\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and
 Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport primitiveArrayConcat\nimport withType\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun <T> Array<out T>.elementAt(index: Int): T {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n
 * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ByteArray.elementAt(index: Int): Byte {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ShortArray.elementAt(index: Int): Short {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun IntArray.elementAt(index: Int): Int {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun LongArray.elementAt(index: Int): Long {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun FloatArray.elementAt(index: Int): Float {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is

out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun DoubleArray.elementAt(index:
 Int): Double {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun BooleanArray.elementAt(index: Int): Boolean {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharArray.elementAt(index: Int): Char {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic actual fun <T> Array<out T>.asList():
 List<T> {\n   return ArrayList<T>(this.unsafeCast<Array<Any?>>())\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun ByteArray.asList(): List<Byte> {\n   return this.unsafeCast<Array<Byte>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList(): List<Short> {\n   return this.unsafeCast<Array<Short>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList(): List<Int> {\n   return this.unsafeCast<Array<Int>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun LongArray.asList(): List<Long> {\n   return this.unsafeCast<Array<Long>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic
 actual inline fun FloatArray.asList(): List<Float> {\n   return this.unsafeCast<Array<Float>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList(): List<Double> {\n   return this.unsafeCast<Array<Double>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun BooleanArray.asList(): List<Boolean> {\n   return this.unsafeCast<Array<Boolean>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic actual fun CharArray.asList(): List<Char> {\n   return object : AbstractList<Char>(), RandomAccess {\n   override val size: Int get() = this@asList.size\n   override fun isEmpty(): Boolean = this@asList.isEmpty()\n   override fun contains(element: Char): Boolean = this@asList.contains(element)\n   override fun get(index: Int): Char {\n   AbstractList.checkElementIndex(index,
 size)\n   return this@asList[index]\n   }\n   override fun indexOf(element: Char): Int {\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is Char) return -1\n   return this@asList.indexOf(element)\n   }\n   override fun lastIndexOf(element: Char): Int {\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is Char) return -1\n   return this@asList.lastIndexOf(element)\n   }\n   }\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN`
 is equal to itself and `-0.0` is not equal to `0.0`.\n
 */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n   return this.contentDeepEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The specified arrays are also considered deeply equal if both are `null`.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point

numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n

*/\n@SinceKotlin(\"1.4\")\n@library(\"arrayDeepEquals\")\npublic actual infix fun <T> Array<out T>?.contentDeepEquals(other:

 Array<out T>?): Boolean {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out T>.contentDeepHashCode(): Int {\n   return this.contentDeepHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n

*/\n@SinceKotlin(\"1.4\")\n@library(\"arrayDeepHashCode\")\npublic actual fun <T> Array<out T>?.contentDeepHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n

 * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out T>.contentDeepToString(): String {\n   return this.contentDeepToString()\n}\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n

*/\n@SinceKotlin(\"1.4\")\n@library(\"arrayDeepToString\")\npublic actual fun <T> Array<out T>?.contentDeepToString(): String {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n

 * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince

 = \"1.4\")\npublic actual infix fun ByteArray.contentEquals(other: ByteArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for

 equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun IntArray.contentEquals(other: IntArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals]

function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun LongArray.contentEquals(other: LongArray): Boolean

{\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and

`-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally*

equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual infix fun CharArray.contentEquals(other: CharArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun

<T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun ByteArray?.contentEquals(other: ByteArray?): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic

actual infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun IntArray?.contentEquals(other: IntArray?): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are

structurally equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal

 to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun LongArray?.contentEquals(other: LongArray?): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun FloatArray?.contentEquals(other: FloatArray?): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN`

 is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun DoubleArray?.contentEquals(other: DoubleArray?): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun BooleanArray?.contentEquals(other: BooleanArray?): Boolean {\n   definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n

 * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayEquals\")\npublic actual infix fun CharArray?.contentEquals(other: CharArray?): Boolean {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun <T> Array<out T>.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun ByteArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as

 if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun ShortArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun IntArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun LongArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use

 Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun FloatArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun DoubleArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based

on the contents of this array as if it is [List].\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun BooleanArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@Deprecated(\"Use

Kotlin compiler 1.4 to avoid deprecation

warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun CharArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun <T> Array<out T>?.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun ByteArray?.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun ShortArray?.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic

actual fun IntArray?.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun LongArray?.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun FloatArray?.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun DoubleArray?.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun BooleanArray?.contentHashCode(): Int

{\n   definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n *\n@SinceKotlin(\"1.4\")\n@library(\"arrayHashCode\")\npublic actual fun CharArray?.contentHashCode(): Int {\n   definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation

warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun <T> Array<out T>.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince

= \"1.4\")\npublic actual fun ByteArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun ShortArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun IntArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the

contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n *\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun LongArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample

samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun FloatArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun DoubleArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun BooleanArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.1\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\npublic actual fun CharArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun <T> Array<out T>?.contentToString(): String {\n   definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun ByteArray?.contentToString(): String {\n   definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun ShortArray?.contentToString(): String {\n   definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun IntArray?.contentToString(): String {\n   definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun LongArray?.contentToString(): String {\n   definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun FloatArray?.contentToString(): String {\n   definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun DoubleArray?.contentToString(): String {\n   definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun BooleanArray?.contentToString(): String {\n   definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@library(\"arrayToString\")\npublic actual fun CharArray?.contentToString(): String {\n   definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by

default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic

actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n   arrayCopy(this, destination, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex]

or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {\n   arrayCopy(this.unsafeCast<Array<Byte>>(), destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination

 range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int =

 0, endIndex: Int = size): ShortArray {\n   arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't

 fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT _ARGUMENTS\")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n   arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n

 * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT _ARGUMENTS\")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {\n   arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex,

 endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT _ARGUMENTS\")\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {\n   arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy,

 size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n

*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT _ARGUMENTS\")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n   arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n *

\n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic

 actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n   arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or

 [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n   arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline fun <T> Array<out

 T>.copyOf(): Array<T> {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun ByteArray.copyOf(): ByteArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun ShortArray.copyOf(): ShortArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun IntArray.copyOf(): IntArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */

 */\npublic actual fun LongArray.copyOf(): LongArray {\n   return withType(\"LongArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun FloatArray.copyOf(): FloatArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun DoubleArray.copyOf(): DoubleArray {\n   return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample

samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun BooleanArray.copyOf():
BooleanArray {\n   return withType(\"BooleanArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array
which is a copy

 of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual
fun CharArray.copyOf(): CharArray {\n   return withType(\"CharArray\", this.asDynamic().slice())\n}\n\n/**\n *
Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either
truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the
original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun
ByteArray.copyOf(newSize: Int): ByteArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\"
}\n   return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the

 given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If
[newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is
greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun
ShortArray.copyOf(newSize: Int): ShortArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\"
}\n   return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the
[newSize].\n * - If [newSize] is greater than the size of the original array, the extra

 elements in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun
IntArray.copyOf(newSize: Int): IntArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n
return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array,
resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n
* \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If
[newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual
fun LongArray.copyOf(newSize: Int): LongArray {\n   require(newSize >= 0) { \"Invalid new array size:
$newSize.\" }\n   return withType(\"LongArray\",

 arrayCopyResize(this, newSize, 0L))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized
to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * -
If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize]
is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n *
@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun
FloatArray.copyOf(newSize: Int): FloatArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\"
}\n   return fillFrom(this, FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original
array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if
necessary.\n * \n * - If [newSize] is less than the size of the

 original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original
array, the extra elements in the copy array are filled with zero values.\n * \n * @sample
samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun
DoubleArray.copyOf(newSize: Int): DoubleArray {\n   require(newSize >= 0) { \"Invalid new array size:
$newSize.\" }\n   return fillFrom(this, DoubleArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of
the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false`
values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the

[newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun CharArray.copyOf(newSize: Int): CharArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T?> {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return arrayCopyResize(this, newSize, null)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\npublic actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to

copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return withType(\"LongArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n

 * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n

 * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return withType(\"BooleanArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which

 is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return withType(\"CharArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size

 of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ByteArray.fill(element: Byte, fromIndex:

 Int = 0, toIndex: Int = size): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified

[element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified

[element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException

if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n

* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param

fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to

 fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {\n   return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic

 actual inline operator fun ByteArray.plus(element: Byte): ByteArray {\n   return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ShortArray.plus(element: Short): ShortArray {\n   return plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n

*/\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun IntArray.plus(element: Int): IntArray {\n   return plus(intArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun LongArray.plus(element: Long): LongArray {\n   return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given

 [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun FloatArray.plus(element: Float): FloatArray {\n   return plus(floatArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n

*/\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun DoubleArray.plus(element: Double): DoubleArray {\n   return plus(doubleArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {\n   return plus(booleanArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun CharArray.plus(element: Char): CharArray {\n   return plus(charArrayOf(element))\n}\n\n/**\n * Returns

 an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual operator fun <T> Array<out T>.plus(elements: Collection<T>): Array<T> {\n   return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and

 then all elements of the given [elements] collection.\n */\npublic actual operator fun IntArray.plus(elements: Collection<Int>): IntArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {\n   return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of

the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {\n   return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {\n   return this.asDynamic().concat(elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ByteArray.plus(elements: ByteArray): ByteArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ShortArray.plus(elements: ShortArray): ShortArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun IntArray.plus(elements: IntArray): IntArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun LongArray.plus(elements: LongArray): LongArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun CharArray.plus(elements: CharArray): CharArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline fun <T> Array<out T>.plusElement(element: T): Array<T> {\n   return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun IntArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic actual fun LongArray.sort(): Unit {\n   @Suppress(\"DEPRECATION\")\n   if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun

ByteArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun ShortArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun DoubleArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic

 actual fun FloatArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun CharArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic actual fun <T : Comparable<T>> Array<out T>.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@Deprecated(\"Use sortWith instead\", ReplaceWith(\"this.sortWith(Comparator(comparison))\"))\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\npublic fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit {\n   if (size > 1) sortArrayWith(this, comparison)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size):

 Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   sortArrayWith(this, fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ByteArray>()\n   subarray.sort()\n}\n\n/**\n * Sorts a range

 in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val subarray = this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>()\n   subarray.sort()\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive)

 to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater

than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*/\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()\n   subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size
 of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*/\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   sortArrayWith(this.unsafeCast<Array<Long>>(),
fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*/\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
 actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<FloatArray>()\n   subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*/\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
actual fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
 AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<DoubleArray>()\n   subarray.sort()\n}\n\n/**\n * Sorts
a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
*/\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
actual fun CharArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<CharArray>()\n   subarray.sort()\n}\n\n/**\n
 * Sorts the array in-place according to the order specified by the given [comparison] function.\n
*/\n@Deprecated(\"Use other sorting functions from the Standard
Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {\n   asDynamic().sort(comparison)\n}\n\n/**\n
* Sorts the array in-place according to the order specified by the given [comparison] function.\n
*/\n@Deprecated(\"Use other sorting functions from the Standard
Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n

asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince

= \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sort(noinline comparison: (a: Long, b: Long) -> Int): Unit {\n

asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the

 order specified by the given [comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n

asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@Deprecated(\"Use other sorting functions from the Standard Library\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n

asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic actual fun <T> Array<out T>.sortWith(comparator:

 Comparator<in T>): Unit {\n   if (size > 1) sortArrayWith(this, comparator)\n}\n\n/**\n * Sorts a range in the array in-place with the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.4\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   sortArrayWith(this, fromIndex, toIndex, comparator)\n}\n\n/**\n

 * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun ByteArray.toTypedArray(): Array<Byte> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun ShortArray.toTypedArray(): Array<Short> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun IntArray.toTypedArray(): Array<Int> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun LongArray.toTypedArray(): Array<Long> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun FloatArray.toTypedArray(): Array<Float> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n

 * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun DoubleArray.toTypedArray(): Array<Double> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun BooleanArray.toTypedArray(): Array<Boolean> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun

CharArray.toTypedArray(): Array<Char> {\n   return Array(size) { index -> this[index] }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin.comparisons\n\n/**\n * Compares two values using the specified functions [selectors] to calculate the result of the comparison.\n * The functions are called sequentially, receive the given values [a] and [b] and return [Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do not\n * compare as equal, the result of that comparison is returned.\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithSelectors\n *\npublic fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {\n   require(selectors.size > 0)\n   return compareValuesByImpl(a, b, selectors)\n}\n\nprivate fun <T> compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>?>): Int {\n   for (fn in selectors) {\n   val v1 = fn(a)\n   val v2 = fn(b)\n   val diff = compareValues(v1, v2)\n   if (diff != 0) return diff\n   }\n   return 0\n}\n\n/**\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return [Comparable] objects.\n * The result of comparison of these [Comparable] instances is returned.\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>?): Int {\n   return compareValues(selector(a), selector(b))\n}\n\n/**\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return objects of type K which are then being\n * compared with the given [comparator].\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithComparator\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in K>, selector: (T) -> K): Int {\n   return comparator.compare(selector(a), selector(b))\n}\n\n////

 Not so useful without type inference for receiver of expression\n//// compareValuesWith(v1, v2, compareBy { it.prop1 } thenByDescending { it.prop2 })\n///**\n// * Compares two values using the specified [comparator].\n//\n *\n//@Suppress(\"NOTHING_TO_INLINE\")\n//public inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)\n//\n\n/**\n * Compares two nullable [Comparable] values. Null is considered less than any value.\n *\n * @sample samples.comparisons.Comparisons.compareValues\n *\npublic fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {\n   if (a === b) return 0\n   if (a == null) return -1\n   if (b == null) return 1\n\n   @Suppress(\"UNCHECKED_CAST\")\n   return (a as Comparable<Any>).compareTo(b)\n}\n\n/**\n * Creates a comparator using the sequence of functions to calculate a result of comparison.\n * The functions are called sequentially, receive the given values `a` and `b` and return [Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do not\n * compare as equal, the result of that comparison is returned from the [Comparator].\n *\n * @sample samples.comparisons.Comparisons.compareByWithSelectors\n *\npublic fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {\n   require(selectors.size > 0)\n   return Comparator { a, b -> compareValuesByImpl(a, b, selectors) }\n}\n\n/**\n * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.compareByWithSingleSelector\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n   Comparator { a, b -> compareValuesBy(a, b, selector) }\n\n/**\n * Creates a comparator using the [selector] function to transform values being compared and then applying\n * the specified [comparator] to compare transformed values.\n *\n * @sample samples.comparisons.Comparisons.compareByWithComparator\n *\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n   Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\n\n/**\n * Creates a descending comparator using the function to transform value to a [Comparable] instance for

comparison.\n *\n * @sample samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n   Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n/**\n * Creates a descending comparator using the [selector] function to transform values being compared and then applying\n * the specified [comparator] to compare transformed values.\n *\n * Note that an order of [comparator] is reversed by this wrapper.\n *\n * @sample samples.comparisons.Comparisons.compareByDescendingWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n   Comparator { a, b -> compareValuesBy(b, a, comparator, selector) }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.thenBy\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n   Comparator { a, b ->\n   val previousCompare = this@thenBy.compare(a, b)\n   if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)\n   }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with the given [comparator].\n *\n * @sample samples.comparisons.Comparisons.thenByWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n   Comparator { a, b ->\n   val previousCompare = this@thenBy.compare(a, b)\n   if (previousCompare != 0) previousCompare else compareValuesBy(a, b, comparator, selector)\n   }\n\n/**\n * Creates a descending comparator using the primary comparator and\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.thenByDescending\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n   Comparator { a, b ->\n   val previousCompare = this@thenByDescending.compare(a, b)\n   if (previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n   }\n\n/**\n * Creates a descending comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with the given [comparator].\n *\n * @sample samples.comparisons.Comparisons.thenByDescendingWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n   Comparator { a, b ->\n   val previousCompare = this@thenByDescending.compare(a, b)\n   if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n   }\n\n\n/**\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\n *\n * @sample samples.comparisons.Comparisons.thenComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n   Comparator { a, b ->\n   val previousCompare = this@thenComparator.compare(a, b)\n   if (previousCompare != 0) previousCompare else comparison(a, b)\n   }\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the former considered values equal.\n *\n * @sample samples.comparisons.Comparisons.then\n */\npublic infix fun <T> Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =\n   Comparator { a, b ->\n   val previousCompare = this@then.compare(a, b)\n   if (previousCompare != 0) previousCompare else comparator.compare(a, b)\n   }\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the former considered values equal.\n *\n * @sample samples.comparisons.Comparisons.thenDescending\n */\npublic infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n   Comparator<T> { a, b ->\n

val previousCompare = this@thenDescending.compare(a, b)\n   if (previousCompare != 0) previousCompare else comparator.compare(b, a)\n   }\n\n// Not so useful without type inference for receiver of expression\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null` value less than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any> nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n   Comparator { a, b ->\n   when {\n   a === b -> 0\n   a == null -> -1\n   b == null -> 1\n   else -> comparator.compare(a, b)\n   }\n   }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> = nullsFirst(naturalOrder())\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null` value greater than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any> nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n   Comparator { a, b ->\n   when {\n   a === b -> 0\n   a == null -> 1\n   b == null -> -1\n   else -> comparator.compare(a, b)\n   }\n   }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value greater than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> = nullsLast(naturalOrder())\n\n/**\n * Returns a comparator that compares [Comparable] objects in natural order.\n *\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\n */\npublic fun <T : Comparable<T>> naturalOrder(): Comparator<T> = @Suppress(\"UNCHECKED_CAST\") (NaturalOrderComparator as Comparator<T>)\n\n/**\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Comparable<T>> reverseOrder(): Comparator<T> = @Suppress(\"UNCHECKED_CAST\") (ReverseOrderComparator as Comparator<T>)\n\n/**\n * Returns a comparator that imposes the reverse ordering of this comparator.\n *\n * @sample samples.comparisons.Comparisons.reversed\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")\npublic fun <T> Comparator<T>.reversed(): Comparator<T> = when (this) {\n   is ReversedComparator -> this.comparator\n   NaturalOrderComparator -> @Suppress(\"UNCHECKED_CAST\") (ReverseOrderComparator as Comparator<T>)\n   ReverseOrderComparator -> @Suppress(\"UNCHECKED_CAST\") (NaturalOrderComparator as Comparator<T>)\n   else -> ReversedComparator(this)\n}\n\n\nprivate class ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T> {\n   override fun compare(a: T, b: T): Int = comparator.compare(b, a)\n   @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\n   fun reversed(): Comparator<T> = comparator\n}\n\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\n   override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n   @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\n   fun reversed(): Comparator<Comparable<Any>> = ReverseOrderComparator\n}\n\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\n   override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\n   @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\n   fun reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StandardKt\")\npackage kotlin\n\nimport kotlin.contracts.*\n\n/**\n * An exception is thrown to indicate that a method body remains to be implemented.\n */\npublic class NotImplementedError(message: String = \"An operation is not implemented.\") : Error(message)\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/**\n *

Always throws [NotImplementedError] stating that operation is not implemented.\n *\n * @param reason a string explaining why the implementation is missing.\n */\n@kotlin.internal.InlineOnly\npublic inline fun TODO(reason: String): Nothing = throw NotImplementedError(\"An operation is not implemented: $reason\")\n\n\n/**\n * Calls the specified function [block] and returns its result.\n

 *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n

*/\n@kotlin.internal.InlineOnly\npublic inline fun <R> run(block: () -> R): R {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n   return block()\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n

*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.run(block: T.() -> R): R {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n   return block()\n}\n\n/**\n * Calls the specified function [block] with the given [receiver] as its receiver and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n

 *\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n   return receiver.block()\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns `this` value.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n   block()\n   return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns `this` value.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\n

*/\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic

 inline fun <T> T.also(block: (T) -> Unit): T {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n   block(this)\n   return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\n

*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.let(block: (T) -> R): R {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n   return block(this)\n}\n\n/**\n * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n */\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun

 <T> T.takeIf(predicate: (T) -> Boolean): T? {\n   contract {\n   callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n   }\n   return if (predicate(this)) this else null\n}\n\n/**\n * Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).\n */\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {\n   contract {\n   callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n   }\n   return if (!predicate(this)) this else null\n}\n\n/**\n * Executes the given function [action] specified number of [times].\n *\n * A zero-based index of current iteration is passed as a parameter to [action].\n *\n * @sample samples.misc.ControlFlow.repeat\n */\n@kotlin.internal.InlineOnly\npublic inline fun repeat(times: Int, action:

 (Int) -> Unit) {\n   contract { callsInPlace(action) }\n\n   for (index in 0 until times) {\n   action(index)\n   }\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport

kotlin.js.*\n\n/**\n * Returns the greater of two values.\n * \n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Byte, b: Byte): Byte {\n   return maxOf(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Short, b: Short): Short {\n   return maxOf(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Int, b: Int): Int {\n   return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun maxOf(a: Long, b: Long): Long {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Float, b: Float): Float {\n   return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Double, b: Double): Double {\n   return JsMath.max(a, b)\n}\n\n/**\n * Returns the greater of three values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {\n   return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Short, b: Short, c: Short): Short {\n   return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Int, b: Int, c: Int): Int {\n   return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long, c: Long): Long {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Float, b: Float, c: Float): Float {\n   return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Double, b: Double, c: Double): Double {\n   return JsMath.max(a, b, c)\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n   return max\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Byte, vararg other: Byte): Byte {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n   return max\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Short, vararg other: Short): Short {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n   return max\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Int, vararg other: Int): Int {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n   return max\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Long, vararg other: Long): Long {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n   return max\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Float, vararg other: Float): Float {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n   return max\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun maxOf(a: Double, vararg other: Double): Double {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n   return max\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic

actual fun <T : Comparable<T>> minOf(a: T, b: T): T {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Byte, b: Byte): Byte {\n   return minOf(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n

 * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Short, b: Short): Short {\n   return minOf(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Int, b: Int): Int {\n   return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun minOf(a: Long, b: Long): Long {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Float, b: Float): Float {\n   return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic

 actual inline fun minOf(a: Double, b: Double): Double {\n   return JsMath.min(a, b)\n}\n\n/**\n * Returns the smaller of three values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {\n   return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {\n   return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Short, b: Short, c: Short): Short {\n   return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline

 fun minOf(a: Int, b: Int, c: Int): Int {\n   return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long, c: Long): Long {\n   return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Float, b: Float, c: Float): Float {\n   return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n

 */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Double, b: Double, c: Double): Double {\n   return JsMath.min(a, b, c)\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun <T : Comparable<T>>

 minOf(a: T, vararg other: T): T {\n   var min = a\n   for (e in other) min = minOf(min, e)\n   return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Byte, vararg other: Byte): Byte {\n   var min = a\n   for (e in other) min = minOf(min, e)\n   return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Short, vararg other: Short): Short {\n   var min = a\n   for (e in other) min = minOf(min, e)\n   return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Int, vararg other: Int): Int {\n   var min = a\n   for (e in other) min = minOf(min, e)\n   return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Long, vararg other: Long): Long {\n   var min = a\n   for (e in other) min = minOf(min, e)\n   return min\n}\n\n/**\n

 * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Float, vararg other: Float): Float {\n   var min = a\n   for (e in other) min = minOf(min, e)\n   return min\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun minOf(a: Double, vararg other: Double): Double {\n   var min = a\n   for (e in other) min = minOf(min, e)\n   return min\n}\n\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport

kotlin.jvm.*\n\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic value class ULong @PublishedApi

 internal constructor(@PublishedApi internal val data: Long) : Comparable<ULong> {\n\n   companion object {\n

    /**\n   * A constant holding the minimum value an instance of ULong can have.\n   *\n   public const val MIN_VALUE: ULong = ULong(0)\n\n   /**\n   * A constant holding the maximum value an instance of ULong can have.\n   *\n   public const val MAX_VALUE: ULong = ULong(-1)\n\n   /**\n   * The number of bytes used to represent an instance of ULong in a binary form.\n   *\n   public const val SIZE_BYTES: Int = 8\n\n   /**\n   * The number of bits used to represent an instance of ULong in a binary form.\n   *\n   public const val SIZE_BITS: Int = 64\n   }\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater

 than other.\n   *\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   *\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toULong())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   *\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())\n\n   /**\n   *

Compares this value with the specified value for order.\n

    * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   *\n   @kotlin.internal.InlineOnly\n@Suppress(\"OVERRIDE_BY_INLINE\")\n   public override inline operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\n\n   /** Adds the other value to this value. *\n@kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n

 /** Adds the other value to this value. *\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\n   /** Adds the other value to this value. *\n@kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n   /** Adds the other value to this value. *\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: ULong): ULong

 = ULong(this.data.plus(other.data))\n\n   /** Subtracts the other value from this value. *\n@kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UByte): ULong = this.minus(other.toULong())\n   /** Subtracts the other value from this value. *\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n   /** Subtracts the other value from this value. *\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())\n   /** Subtracts the other value from this value. *\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n   /** Multiplies this value by the other value. *\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UByte): ULong = this.times(other.toULong())\n   /** Multiplies this value by the other value. *\n@kotlin.internal.InlineOnly\n

    public inline operator fun times(other: UShort): ULong = this.times(other.toULong())\n   /** Multiplies this value by the other value. *\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n   /** Multiplies this value by the other value. *\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))\n\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. *\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UByte): ULong = this.div(other.toULong())\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. *\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UShort): ULong = this.div(other.toULong())\n   /** Divides this value by the other

value, truncating the result

 to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UInt): ULong = this.div(other.toULong())\n   /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: ULong): ULong = ulongDivide(this, other)\n\n   /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n   /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\n   /**\n   * Calculates the remainder

 of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())\n   /**\n   * Calculates the remainder of truncating division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: ULong): ULong = ulongRemainder(this, other)\n\n   /**\n   * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: UByte): ULong = this.floorDiv(other.toULong())\n   /**\n   * Divides this value by the other value, flooring the result to an integer that is

 closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: UShort): ULong = this.floorDiv(other.toULong())\n   /**\n   * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: UInt): ULong = this.floorDiv(other.toULong())\n   /**\n   * Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.\n   * \n   * For unsigned types, the results of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun floorDiv(other: ULong): ULong = div(other)\n\n   /**\n   * Calculates

 the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: UByte): UByte = this.mod(other.toULong()).toUByte()\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: UShort): UShort = this.mod(other.toULong()).toUShort()\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division

 and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: UInt): UInt = this.mod(other.toULong()).toUInt()\n   /**\n   * Calculates the remainder of flooring division of this value by the other value.\n   * \n   * The result is always less than the divisor.\n   * \n   * For unsigned types, the remainders of flooring division and truncating division are the same.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun mod(other: ULong): ULong = rem(other)\n\n   /**\n   * Returns this value incremented by one.\n   * \n   * @sample samples.misc.Builtins.inc\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun inc(): ULong = ULong(data.inc())\n\n   /**\n   * Returns this value decremented by one.\n   * \n   * @sample samples.misc.Builtins.dec\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun dec(): ULong = ULong(data.dec())\n\n   /** Creates a range from

 this value to the specified [other] value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rangeTo(other: ULong): ULongRange = ULongRange(this, other)\n\n   /**\n   * Shifts this value left by the

[bitCount] number of bits.\n   *\n   * Note that only the six lowest-order bits of the [bitCount] are used as the shift distance.\n   * The shift distance actually used is therefore always in the range `0..63`.\n   *\n @kotlin.internal.InlineOnly\n   public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)\n\n /**\n   * Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros.\n   *\n   * Note that only the six lowest-order bits of the [bitCount] are used as the shift distance.\n   * The shift distance actually used is therefore always in the range `0..63`.\n   *\n   @kotlin.internal.InlineOnly\n   public inline infix fun shr(bitCount: Int): ULong = ULong(data ushr bitCount)\n\n   /**

 Performs a bitwise AND operation between the two values. *\n   @kotlin.internal.InlineOnly\n   public inline infix fun and(other: ULong): ULong = ULong(this.data and other.data)\n   /** Performs a bitwise OR operation between the two values. *\n   @kotlin.internal.InlineOnly\n   public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)\n   /** Performs a bitwise XOR operation between the two values. *\n   @kotlin.internal.InlineOnly\n   public inline infix fun xor(other: ULong): ULong = ULong(this.data xor other.data)\n   /** Inverts the bits in this value. *\n   @kotlin.internal.InlineOnly\n   public inline fun inv(): ULong = ULong(data.inv())\n\n   /**\n   * Converts this [ULong] value to [Byte].\n   *\n   * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `Byte` value is represented by the least significant 8 bits

 of this `ULong` value.\n   * Note that the resulting `Byte` value may be negative.\n   *\n   @kotlin.internal.InlineOnly\n   public inline fun toByte(): Byte = data.toByte()\n   /**\n   * Converts this [ULong] value to [Short].\n   *\n   * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `Short` value is represented by the least significant 16 bits of this `ULong` value.\n   * Note that the resulting `Short` value may be negative.\n   *\n   @kotlin.internal.InlineOnly\n   public inline fun toShort(): Short = data.toShort()\n   /**\n   * Converts this [ULong] value to [Int].\n   *\n   * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `Int` value is represented by the least significant 32 bits of this `ULong`

 value.\n   * Note that the resulting `Int` value may be negative.\n   *\n   @kotlin.internal.InlineOnly\n   public inline fun toInt(): Int = data.toInt()\n   /**\n   * Converts this [ULong] value to [Long].\n   *\n   * If this value is less than or equals to [Long.MAX_VALUE], the resulting `Long` value represents\n   * the same numerical value as this `ULong`. Otherwise the result is negative.\n   *\n   * The resulting `Long` value has the same binary representation as this `ULong` value.\n   *\n   @kotlin.internal.InlineOnly\n   public inline fun toLong(): Long = data\n\n   /**\n   * Converts this [ULong] value to [UByte].\n   *\n   * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `UByte` value is represented by the least significant 8 bits of this `ULong` value.\n   *\n   @kotlin.internal.InlineOnly\n   public inline

 fun toUByte(): UByte = data.toUByte()\n   /**\n   * Converts this [ULong] value to [UShort].\n   *\n   * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `UShort` value is represented by the least significant 16 bits of this `ULong` value.\n   *\n   @kotlin.internal.InlineOnly\n   public inline fun toUShort(): UShort = data.toUShort()\n   /**\n   * Converts this [ULong] value to [UInt].\n   *\n   * If this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `UInt` value is represented by the least significant 32 bits of this `ULong` value.\n   *\n   @kotlin.internal.InlineOnly\n   public inline fun toUInt(): UInt = data.toUInt()\n   /** Returns this value. *\n   @kotlin.internal.InlineOnly\n   public inline fun toULong():

 ULong = this\n\n   /**\n   * Converts this [ULong] value to [Float].\n   *\n   * The resulting value is the closest `Float` to this `ULong` value.\n   * In case when this `ULong` value is exactly between two `Float`s,\n   * the one with zero at least significant bit of mantissa is selected.\n   *\n   @kotlin.internal.InlineOnly\n   public inline fun toFloat(): Float = this.toDouble().toFloat()\n   /**\n   * Converts this [ULong] value to [Double].\n   *\n   * The resulting value is the closest `Double` to this `ULong` value.\n   * In case when this `ULong` value is exactly

between two `Double`s,\n   * the one with zero at least significant bit of mantissa is selected.\n   */\n @kotlin.internal.InlineOnly\n   public inline fun toDouble(): Double = ulongToDouble(data)\n\n   public override fun toString(): String = ulongToString(data)\n\n}\n\n/**\n * Converts this [Byte] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value

represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value,\n * whereas the most significant 56 bits are filled with the sign bit of this value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\ npublic inline fun Byte.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Short] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.\n *\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\n * whereas the most significant 48 bits are filled with the sign bit of this value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\ npublic inline fun Short.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Int]

value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`.\n *\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value,\n * whereas the most significant 32 bits are filled with the sign bit of this value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\ npublic inline fun Int.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Long] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`.\n *\n * The resulting `ULong` value has the same binary representation as this `Long` value.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\ npublic inline fun Long.toULong(): ULong = ULong(this)\n\n/**\n * Converts this [Float] value to [ULong].\n *\n * The fractional part,

if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\ npublic inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\n/**\n * Converts this [Double] value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n

/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\ npublic inline fun Double.toULong(): ULong = doubleToULong(this)\n","/\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.\n

*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 2.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component2(): T {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 3.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component3(): T {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component4(): T {\n   return get(3)\n}\n\n/**\n * Returns 5th *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the

size of this list is less than 5.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component5(): T {\n   return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the collection.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n   if (this is Collection)\n   return contains(element)\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Iterable<T>.elementAt(index: Int): T {\n   if (this is List)\n   return get(index)\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"Collection doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAt(index: Int): T {\n   return get(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T> Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n   if (this is List)\n   return this.getOrElse(index, defaultValue)\n   if (index < 0)\n   return defaultValue(index)\n   val iterator = iterator()\n   var count = 0\n   while (iterator.hasNext()) {\n   val element = iterator.next()\n   if (index == count++)\n   return element\n   }\n   return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T> Iterable<T>.elementAtOrNull(index: Int): T? {\n   if (this is List)\n   return this.getOrNull(index)\n   if (index < 0)\n   return null\n   val iterator = iterator()\n   var count = 0\n   while (iterator.hasNext()) {\n   val element = iterator.next()\n   if (index == count++)\n   return element\n   }\n   return null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrNull(index: Int): T? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.find(predicate: (T) -> Boolean): T? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.findLast(predicate: (T) -> Boolean): T? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the collection is empty.\n */\npublic fun <T> Iterable<T>.first(): T {\n   when (this) {\n   is List -> return this.first()\n   else -> {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   throw NoSuchElementException(\"Collection is empty.\")\n   return iterator.next()\n   }\n   }\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the list is empty.\n */\npublic fun <T> List<T>.first(): T {\n   if (isEmpty())\n   throw NoSuchElementException(\"List is empty.\")\n   return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Iterable<T>.first(predicate: (T)

-> Boolean): T {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this collection in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Iterable<T>.firstNotNullOf(transform:

(T) -> R?): R {\n   return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException(\"No element of the collection was transformed to a non-null value.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this collection in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Iterable<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n   for (element in this) {\n   val result = transform(element)\n   if (result != null) {\n   return result\n   }\n   }\n   return null\n}\n\n/**\n * Returns the first element, or `null` if the collection is empty.\n */\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n   when (this) {\n   is List -> {\n   if (isEmpty())\n   return null\n   else\n   return this[0]\n   }\n   else -> {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   return null\n   return iterator.next()\n   }\n   }\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n */\npublic fun <T> List<T>.firstOrNull(): T? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n   return if (index >= 0 && index

<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T): Int {\n   if (this is List) return this.indexOf(element)\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (element == item)\n   return index\n   index++\n   }\n   return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the list does not contain element.\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes

T> List<T>.indexOf(element: T): Int {\n   return indexOf(element)\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T> Iterable<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (predicate(item))\n   return index\n   index++\n   }\n   return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n   var index = 0\n   for (item in this) {\n   if (predicate(item))\n   return index\n   index++\n   }\n   return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun

<T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n   var lastIndex = -1\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (predicate(item))\n   lastIndex = index\n   index++\n   }\n   return lastIndex\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n   val iterator = this.listIterator(size)\n   while (iterator.hasPrevious()) {\n   if (predicate(iterator.previous())) {\n

return iterator.nextIndex()\n   }\n   }\n   return -1\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the collection is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.last(): T {\n   when (this) {\n   is List -> return this.last()\n   else -> {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   throw NoSuchElementException(\"Collection is empty.\")\n   var last = iterator.next()\n   while (iterator.hasNext())\n   last = iterator.next()\n   return last\n   }\n   }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the list is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.last(): T {\n   if (isEmpty())\n   throw NoSuchElementException(\"List is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Iterable<T>.last(predicate: (T) -> Boolean): T {\n   var last: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   last = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return last as T\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T {\n   val iterator = this.listIterator(size)\n   while (iterator.hasPrevious()) {\n   val element = iterator.previous()\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"List contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n   if (this is List) return this.lastIndexOf(element)\n   var lastIndex = -1\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (element == item)\n   lastIndex = index\n   index++\n   }\n   return lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain element.\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n   return lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.lastOrNull(): T? {\n   when (this) {\n   is List -> return if (isEmpty()) null else this[size - 1]\n   else -> {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   return null\n   var last = iterator.next()\n   while (iterator.hasNext())\n   last = iterator.next()\n   return last\n   }\n   }\n}\n\n/**\n * Returns the last element, or `null` if the list is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.lastOrNull(): T? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Iterable<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n   var last: T? = null\n   for (element in this) {\n   if (predicate(element)) {\n   last = element\n   }\n   }\n   return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n   val iterator = this.listIterator(size)\n   while (iterator.hasPrevious()) {\n   val element = iterator.previous()\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns a random element from this collection.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of randomness.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Collection<T>.random(random: Random): T {\n   if (isEmpty())\n

throw NoSuchElementException(\"Collection is empty.\")\n   return elementAt(random.nextInt(size))\n}\n\n/**\n *
Returns a random element from this collection, or `null` if this collection is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c
 inline fun <T> Collection<T>.randomOrNull(): T? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this collection using the specified source of randomness, or `null` if this collection is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
Collection<T>.randomOrNull(random: Random): T? {\n   if (isEmpty())\n   return null\n   return
elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is
empty or has more than one element.\n */\npublic fun <T> Iterable<T>.single(): T {\n   when (this) {\n   is List -
> return this.single()\n   else -> {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n
throw NoSuchElementException(\"Collection is empty.\")\n   val single = iterator.next()\n   if
(iterator.hasNext())\n
                throw IllegalArgumentException(\"Collection has more than one element.\")\n   return single\n
}\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the list is empty or has more than one
element.\n */\npublic fun <T> List<T>.single(): T {\n   return when (size) {\n   0 -> throw
NoSuchElementException(\"List is empty.\")\n   1 -> this[0]\n   else -> throw
IllegalArgumentException(\"List has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element
matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic
inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n   var single: T? = null\n   var found = false\n
for (element in this) {\n   if (predicate(element)) {\n   if (found) throw
IllegalArgumentException(\"Collection contains more than one matching element.\")\n   single = element\n
found
 = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Collection contains no element matching the
predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as T\n}\n\n/**\n * Returns single element,
or `null` if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.singleOrNull():
T? {\n   when (this) {\n   is List -> return if (size == 1) this[0] else null\n   else -> {\n   val iterator =
iterator()\n   if (!iterator.hasNext())\n   return null\n   val single = iterator.next()\n   if
(iterator.hasNext())\n   return null\n   return single\n   }\n   }\n}\n\n/**\n * Returns single element,
or `null` if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.singleOrNull(): T? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or
`null` if element was
 not found or more than one element was found.\n */\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T)
-> Boolean): T? {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if
(predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n
if (!found) return null\n   return single\n}\n\n/**\n * Returns a list containing all elements except first [n]
elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Iterable<T>.drop(n: Int): List<T> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return toList()\n   val list:
ArrayList<T>\n   if (this is Collection<*>) {\n   val resultSize = size - n\n   if (resultSize <= 0)\n   return
emptyList()\n   if (resultSize == 1)\n   return listOf(last())\n
        list = ArrayList<T>(resultSize)\n   if (this is List<T>) {\n   if (this is RandomAccess) {\n   for
(index in n until size)\n   list.add(this[index])\n   } else {\n   for (item in listIterator(n))\n
        list.add(item)\n   }\n   return list\n   }\n   } else {\n   list = ArrayList<T>()\n   }\n   var
count = 0\n   for (item in this) {\n   if (count >= n) list.add(item) else ++count\n   }\n   return
list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n *
@throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int): List<T> {\n

require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements

 except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n   if (!isEmpty()) {\n   val iterator = listIterator(size)\n   while (iterator.hasPrevious()) {\n   if (!predicate(iterator.previous())) {\n   return take(iterator.nextIndex() + 1)\n   }\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Iterable<T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n   var yielding = false\n   val list = ArrayList<T>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n

    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n   return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n   return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate

 evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R> Iterable<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n   return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination:

 C): C {\n   for (element in this) if (element is R) destination.add(element)\n   return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean): List<T> {\n   return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n */\npublic fun <T : Any> Iterable<T?>.filterNotNull(): List<T> {\n   return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n */\npublic fun <C : MutableCollection<in T>, T : Any> Iterable<T?>.filterNotNullTo(destination: C): C {\n   for (element in this) if (element != null) destination.add(element)\n

    return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample

samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n *\npublic fun <T> List<T>.slice(indices: IntRange): List<T> {\n   if (indices.isEmpty()) return

 listOf()\n   return this.subList(indices.start, indices.endInclusive + 1).toList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n *\npublic fun <T> List<T>.slice(indices: Iterable<Int>): List<T> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<T>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic fun <T> Iterable<T>.take(n: Int): List<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (this is Collection<T>) {\n   if (n >= size) return toList()\n   if (n == 1) return listOf(first())\n   }\n   var count = 0\n   val list = ArrayList<T>(n)\n   for (item in this)

 {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(last())\n   val list = ArrayList<T>(n)\n   if (this is RandomAccess) {\n   for (index in size - n until size)\n   list.add(this[index])\n   } else {\n   for (item in listIterator(size - n))\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n   if (isEmpty())\n   return emptyList()\n   val iterator = listIterator(size)\n   while (iterator.hasPrevious()) {\n   if (!predicate(iterator.previous())) {\n   iterator.next()\n   val expectedSize = size - iterator.nextIndex()\n   if (expectedSize == 0) return emptyList()\n   return ArrayList<T>(expectedSize).apply {\n   while (iterator.hasNext())\n   add(iterator.next())\n   }\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic inline fun <T> Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n   val list = ArrayList<T>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n

 * Reverses elements in the list in-place.\n *\npublic expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n *\npublic fun <T> Iterable<T>.reversed(): List<T> {\n   if (this is Collection && size <= 1) return toList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Randomly shuffles elements in this list in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n *\n@SinceKotlin(\"1.3\")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   this[j] = this.set(i, this[j])\n   }\n}\n\n/**\n * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order

 relative to each other after sorting.\n *\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n   if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n   if (size > 1)

sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n sortWith(reverseOrder())\n}\n\n/**\n * Returns a list

 of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n   if (this is Collection) {\n   if (size <= 1) return this.toList()\n   @Suppress(\"UNCHECKED_CAST\")\n   return (toTypedArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()\n   }\n   return toMutableList().apply { sort() }\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n *

 Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sortedDescending(): List<T> {\n   return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun

 <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {\n   if (this is Collection) {\n   if (size <= 1) return this.toList()\n   @Suppress(\"UNCHECKED_CAST\")\n   return (toTypedArray<Any?>() as Array<T>).apply { sortWith(comparator) }.asList()\n   }\n   return toMutableList().apply { sortWith(comparator) }\n}\n\n/**\n * Returns an array of Boolean containing all of the elements of this collection.\n */\npublic fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n   val result = BooleanArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this collection.\n */\npublic fun Collection<Byte>.toByteArray(): ByteArray {\n   val result = ByteArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Char containing all of the elements of this

 collection.\n */\npublic fun Collection<Char>.toCharArray(): CharArray {\n   val result = CharArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Double containing all of the elements of this collection.\n */\npublic fun Collection<Double>.toDoubleArray(): DoubleArray {\n   val result = DoubleArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Float containing all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray(): FloatArray {\n   val result = FloatArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n */\npublic fun Collection<Int>.toIntArray(): IntArray {\n   val result = IntArray(size)\n   var index = 0\n   for

 (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Long containing all of the elements of this collection.\n */\npublic fun Collection<Long>.toLongArray(): LongArray {\n   val result = LongArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of Short containing all of the elements of this collection.\n */\npublic fun Collection<Short>.toShortArray(): ShortArray {\n   val result = ShortArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given collection.\n * \n * If any of two pairs would

have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associate\n */\npublic inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given collection indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K> Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n   val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map]

containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V> Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n   val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given collection\n * and value is the element itself.\n * \n * If any two elements would have the same

key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T)

-> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given collection and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves

the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n   val result = LinkedHashMap<K, V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given collection,\n * where key is the element itself and value is provided by the [valueSelector]

function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic fun <T> Iterable<T>.toHashSet(): HashSet<T> {\n   return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun <T> Iterable<T>.toList(): List<T> {\n   if (this is Collection) {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(if (this is List) get(0) else iterator().next())\n   else -> this.toMutableList()\n   }\n   }\n   return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this

collection.\n */\npublic fun <T> Iterable<T>.toMutableList(): MutableList<T> {\n   if (this is Collection<T>)\n   return this.toMutableList()\n   return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this collection.\n */\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n   return ArrayList(this)\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n   if (this is Collection) {\n   return when (size) {\n   0 -> emptySet()\n   1 -> setOf(if (this is List) this[0] else iterator().next())\n   else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n   }\n   }\n   return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on

each element of original collection.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original collection.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequence\")\npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequence\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(),

transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original collection, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npubli

c inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(checkIndexOverflow(index++), element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original collection, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequenceTo\")\n@kotlin.internal.InlineOnly\npublic

 inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(checkIndexOverflow(index++), element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original collection, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on

 each element of original collection, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequenceTo\")\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n   return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list

 of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<T>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination:

 M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n

list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n   return object : Grouping<T, K> {\n   override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n   override fun keyOf(element: T): K = keySelector(element)\n   }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original collection.\n

 * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Iterable<T>.map(transform: (T) -> R): List<R> {\n   return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result

 of the transform applied to the element.\n */\npublic inline fun <T, R : Any> Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n   return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original collection\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n   forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original collection\n * and appends the results to the given [destination].\n * @param

 [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(checkIndexOverflow(index++), item))\n   return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <T, R : Any> Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n   return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original collection\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R

 : Any, C : MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n   forEach { element -> transform(element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original collection\n * and appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T> Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given collection.\n * \n * Among equal elements of the given collection,

only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source collection.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Iterable<T>.distinct(): List<T> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the given collection\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the given collection with equal keys, only the first one will be present in the resulting list.\n * The elements in the resulting list are in the same order as they were in the source collection.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic inline fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n   val set = HashSet<K>()\n   val list = ArrayList<T>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n   return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this collection and the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.retainAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this collection and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.removeAll(other)\n   return set\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {\n   return when (this) {\n   is Collection<T> -> LinkedHashSet(this)\n   else -> toCollection(LinkedHashSet<T>())\n   }\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original collection.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {\n   if (this is Collection && isEmpty()) return true\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if collection has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Iterable<T>.any(): Boolean {\n   if (this is Collection) return !isEmpty()\n   return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n   if (this is Collection && isEmpty()) return false\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the number of elements in this collection.\n */\npublic fun <T> Iterable<T>.count(): Int {\n   if (this is Collection) return size\n   var count = 0\n   for (element in this) checkCountOverflow(++count)\n   return count\n}\n\n/**\n * Returns the number of elements in this collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.count(predicate: (T) -> Boolean): Int {\n   if (this is Collection && isEmpty()) return 0\n   var count = 0\n   for (element in this) if (predicate(element)) checkCountOverflow(++count)\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n

*/\npublic inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Returns the specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with

[initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the list is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n   var accumulator = initial\n   if (!isEmpty()) {\n   val iterator = listIterator(size)\n   while (iterator.hasPrevious()) {\n   accumulator = operation(iterator.previous(), accumulator)\n   }\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * \n * Returns the specified [initial] value if the list is empty.\n * \n * @param [operation] function that takes the index of an element, the

 element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n   var accumulator = initial\n   if (!isEmpty()) {\n   val iterator = listIterator(size)\n   while (iterator.hasPrevious()) {\n   val index = iterator.previousIndex()\n   accumulator = operation(index, iterator.previous(), accumulator)\n   }\n   }\n   return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n

*/\n@kotlin.internal.HidesMembers\npublic inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\npublic inline fun <T> Iterable<T>.forEachIndexed(action:

 (index: Int, T) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Double>.max(): Double? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Float>.max(): Float? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T : Comparable<T>> Iterable<T>.max(): T? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince

 = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T? {\n   return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) -> R): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var maxElem = iterator.next()\n   if (!iterator.hasNext()) return maxElem\n   var maxValue = selector(maxElem)\n   do {\n   val e = iterator.next()\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   } while (iterator.hasNext())\n   return maxElem\n}\n\n/**\n * Returns the largest value

among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) -> Double): Double {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result

is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) -> Float): Float {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws NoSuchElementException if the collection is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxOf(selector:

(T) -> R): R {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T) -> Double): Double? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext())

{\n   val v = selector(iterator.next())\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T) -> Float): Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each

element in the collection or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxOfOrNull(selector: (T) -> R): R? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the collection.\n * \n * @throws

NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R> Iterable<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n   val iterator
= iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var maxValue =
selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if
(comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the collection or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n   val iterator =
iterator()\n   if (!iterator.hasNext()) return null\n   var
maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if
(comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\npublic fun Iterable<Double>.maxOrNull(): Double? {\n   val iterator = iterator()\n   if
(!iterator.hasNext()) return null\n   var max = iterator.next()\n   while (iterator.hasNext()) {\n   val e =
iterator.next()\n   max = maxOf(max, e)\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun
Iterable<Float>.maxOrNull(): Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max
= iterator.next()\n   while (iterator.hasNext())
{\n   val e = iterator.next()\n   max = maxOf(max, e)\n   }\n   return max\n}\n\n/**\n * Returns the largest
element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>>
Iterable<T>.maxOrNull(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max =
iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (max < e) max = e\n   }\n
return max\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\",
ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n
return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4")\npublic fun <T>
Iterable<T>.maxWithOrNull(comparator:
Comparator<in T>): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max =
iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (comparator.compare(max, e) <
0) max = e\n   }\n   return max\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Double>.min(): Double? {\n   return
minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Float>.min(): Float? {\n   return
minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun
<T : Comparable<T>> Iterable<T>.min(): T? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minByOrNull
instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minBy(selector: (T) -> R): T? {\n   return minByOrNull(selector)\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample

samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minByOrNull(selector: (T) -> R): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var minElem = iterator.next()\n   if (!iterator.hasNext()) return minElem\n   var minValue = selector(minElem)\n   do {\n   val e = iterator.next()\n   val v = selector(e)\n   if (minValue > v) {\n   minElem

 = e\n   minValue = v\n   }\n   } while (iterator.hasNext())\n   return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) -> Double): Double {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]

 function\n * applied to each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOf(selector: (T) -> Float): Float {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws NoSuchElementException if the collection is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <T, R : Comparable<R>> Iterable<T>.minOf(selector: (T) -> R): R {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T) -> Double): Double?

 {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOfOrNull(selector: (T) -> Float): Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   minValue = minOf(minValue,

 v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.minOfOrNull(selector: (T) -> R): R? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return
null\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v =
selector(iterator.next())\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic
 inline fun <T, R> Iterable<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n   val iterator
= iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var minValue =
selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if
(comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the collection or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Iterable<T>.minOfWithOrNull(comparator:
 Comparator<in R>, selector: (T) -> R): R? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n
var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n
if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\npublic fun Iterable<Double>.minOrNull(): Double? {\n   val iterator = iterator()\n   if
(!iterator.hasNext()) return null\n   var min = iterator.next()\n   while (iterator.hasNext()) {\n   val e =
iterator.next()\n   min = minOf(min, e)\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic fun
Iterable<Float>.minOrNull():
 Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var min = iterator.next()\n   while
(iterator.hasNext()) {\n   val e = iterator.next()\n   min = minOf(min, e)\n   }\n   return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T :
Comparable<T>> Iterable<T>.minOrNull(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n
 var min = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (min > e) min = e\n
 }\n   return min\n}\n\n@Deprecated(\"Use minWithOrNull instead.\",
ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n
return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest
 value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\npublic
fun <T> Iterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n   val iterator = iterator()\n   if
(!iterator.hasNext()) return null\n   var min = iterator.next()\n   while (iterator.hasNext()) {\n   val e =
iterator.next()\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns `true` if
the collection has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun
<T> Iterable<T>.none(): Boolean {\n   if (this is Collection) return isEmpty()\n   return
!iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T>
Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n   if (this is Collection && isEmpty()) return true\n   for
(element
 in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Performs the given [action] on each element
and returns the collection itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, C : Iterable<T>>

C.onEach(action: (T) -> Unit): C {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the collection itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, C : Iterable<T>> C.onEachIndexed(action: (index: Int, T) -> Unit): C {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this collection is empty.

 If the collection can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n   val iterator = this.iterator()\n   if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't be reduced.\")\n   var accumulator: S = iterator.next()\n   while (iterator.hasNext()) {\n   accumulator = operation(accumulator, iterator.next())\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Throws an exception if this collection is empty.

 If the collection can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n   val iterator = this.iterator()\n   if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't be reduced.\")\n   var index = 1\n   var accumulator: S = iterator.next()\n   while (iterator.hasNext()) {\n   accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element

 with its index in the original collection.\n * \n * Returns `null` if the collection is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Iterable<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n   val iterator = this.iterator()\n   if (!iterator.hasNext()) return null\n   var index = 1\n   var accumulator: S = iterator.next()\n   while (iterator.hasNext()) {\n   accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the collection is empty.\n * \n * @param

 [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n   val iterator = this.iterator()\n   if (!iterator.hasNext()) return null\n   var accumulator: S = iterator.next()\n   while (iterator.hasNext()) {\n   accumulator = operation(accumulator, iterator.next())\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes

 an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S> List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n   val iterator = listIterator(size)\n   if

(!iterator.hasPrevious())\n   throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n   var accumulator: S = iterator.previous()\n   while (iterator.hasPrevious()) {\n   accumulator = operation(iterator.previous(), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]

 function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun <S, T : S> List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n   val iterator = listIterator(size)\n   if (!iterator.hasPrevious())\n   throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n   var accumulator: S = iterator.previous()\n   while (iterator.hasPrevious()) {\n   val index = iterator.previousIndex()\n   accumulator = operation(index, iterator.previous(), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n * @param [operation] function that takes

 the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n   val iterator = listIterator(size)\n   if (!iterator.hasPrevious())\n   return null\n   var accumulator: S = iterator.previous()\n   while (iterator.hasPrevious()) {\n   val index = iterator.previousIndex()\n   accumulator = operation(index, iterator.previous(), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator

 value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n   val iterator = listIterator(size)\n   if (!iterator.hasPrevious())\n   return null\n   var accumulator: S = iterator.previous()\n   while (iterator.hasPrevious()) {\n   accumulator = operation(iterator.previous(), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the

 next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R> Iterable<T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n   val estimatedSize = collectionSizeOrDefault(9)\n   if (estimatedSize == 0) return listOf(initial)\n   val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original collection and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]

 function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R> Iterable<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n   val estimatedSize = collectionSizeOrDefault(9)\n   if (estimatedSize == 0)

return listOf(initial)\n   val result = ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n   var index = 0\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(index++, accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this collection.\n * \n * Note that `acc`

value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n   val iterator = this.iterator()\n   if (!iterator.hasNext()) return emptyList()\n   var accumulator: S = iterator.next()\n   val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n   while (iterator.hasNext()) {\n   accumulator = operation(accumulator, iterator.next())\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n

* to each element, its index in the original collection and current accumulator value that starts with the first element of this collection.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Iterable<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n   val iterator = this.iterator()\n   if (!iterator.hasNext()) return emptyList()\n   var accumulator: S = iterator.next()\n   val result = ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n   var index = 1\n   while (iterator.hasNext()) {\n   accumulator = operation(index++, accumulator, iterator.next())\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element,

its index in the original collection and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R> Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@Deprecated(\"Use sumOf instead.\",

ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> Iterable<T?>.requireNoNulls(): Iterable<T> {\n   for (element in this) {\n   if (element == null) {\n   throw IllegalArgumentException(\"null element found in $this.\")\n   }\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return this as Iterable<T>\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> List<T?>.requireNoNulls(): List<T> {\n   for (element in this) {\n   if (element == null) {\n   throw IllegalArgumentException(\"null element found in $this.\")\n   }\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return this as List<T>\n}\n\n/**\n * Splits this collection into a list of lists each not exceeding the given [size].\n * \n * The last list in the resulting list may have fewer elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.chunked(size: Int): List<List<T>> {\n   return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this collection into several lists each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid

only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have fewer elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {\n   return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n */\npublic operator fun <T> Iterable<T>.minus(element: T): List<T> {\n   val result = ArrayList<T>(collectionSizeOrDefault(10))\n   var removed = false\n   return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns

a list containing all elements of the original collection except the elements contained in the given [elements] array.\n * \n * Before Kotlin 1.6, the [elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Array<out T>): List<T> {\n   if (elements.isEmpty()) return this.toList()\n   val other = elements.convertToSetForSetOperation()\n   return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.\n * \n * Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to

speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {\n   val other = elements.convertToSetForSetOperationWith(this)\n   if (other.isEmpty())\n   return this.toList()\n   return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.\n * \n * Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior

back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {\n   val other = elements.convertToSetForSetOperation()\n   if (other.isEmpty())\n   return this.toList()\n   return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minusElement(element: T): List<T> {\n   return minus(element)\n}\n\n/**\n * Splits the original collection into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n * @sample samples.collections.Iterables.Operations.partition\n */\npublic inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n

    val first = ArrayList<T>()\n   val second = ArrayList<T>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T> Iterable<T>.plus(element: T): List<T> {\n   if (this is Collection) return this.plus(element)\n   val result = ArrayList<T>()\n   result.addAll(this)\n   result.add(element)\n   return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T> Collection<T>.plus(element: T): List<T> {\n   val result = ArrayList<T>(size + 1)\n   result.addAll(this)\n   result.add(element)\n   return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the

given [elements] array.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {\n   if (this is Collection) return this.plus(elements)\n   val result = ArrayList<T>()\n   result.addAll(this)\n result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n */\npublic operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {\n   val result = ArrayList<T>(this.size + elements.size)\n result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Iterable<T>): List<T> {\n   if (this is Collection) return this.plus(elements)\n   val result = ArrayList<T>()\n   result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.\n */\npublic operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {\n   if (elements is Collection) {\n   val result = ArrayList<T>(this.size + elements.size)\n   result.addAll(this)\n result.addAll(elements)\n   return result\n   } else {\n   val result = ArrayList<T>(this)\n result.addAll(elements)\n   return result\n   }\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Sequence<T>): List<T> {\n   val result = ArrayList<T>()\n   result.addAll(this)\n result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Collection<T>.plus(elements: Sequence<T>): List<T> {\n   val result = ArrayList<T>(this.size + 10)\n result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.plusElement(element: T): List<T> {\n   return plus(element)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.plusElement(element: T): List<T> {\n   return plus(element)\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this collection with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n   checkWindowSizeStep(size, step)\n   if (this is RandomAccess && this is List) {\n   val thisSize = this.size\n   val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n   val result = ArrayList<List<T>>(resultCapacity)\n   var index = 0\n   while (index in 0 until thisSize) {\n   val windowSize = size.coerceAtMost(thisSize - index)\n   if (windowSize < size && !partialWindows) break\n   result.add(List(windowSize) { this[it + index] })\n   index += step\n   }\n   return result\n   }\n   val result = ArrayList<List<T>>()\n   windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {\n   result.add(it)\n   }\n   return result\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this collection with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample

samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): List<R> {\n   checkWindowSizeStep(size, step)\n   if (this is RandomAccess && this is List) {\n   val thisSize = this.size\n   val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n   val result = ArrayList<R>(resultCapacity)\n   val window = MovingSubList(this)\n   var index = 0\n   while (index in 0 until thisSize) {\n   val windowSize = size.coerceAtMost(thisSize - index)\n   if (!partialWindows && windowSize < size) break\n

        window.move(index, index + windowSize)\n   result.add(transform(window))\n   index += step\n   }\n   return result\n   }\n   val result = ArrayList<R>()\n   windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n   result.add(transform(it))\n   }\n   return result\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n
 * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n   val arraySize = other.size\n   val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in this) {\n   if (i >= arraySize) break\n   list.add(transform(element, other[i++]))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] collection with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] collection with the same index\n * using the provided
 [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n   val first = iterator()\n   val second = other.iterator()\n   val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))\n   while (first.hasNext() && second.hasNext()) {\n   list.add(transform(first.next(), second.next()))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n   return zipWithNext { a, b -> a to b }\n}\n\n/**\n
 * Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return emptyList()\n   val result = mutableListOf<R>()\n   var current = iterator.next()\n   while (iterator.hasNext()) {\n   val next = iterator.next()\n   result.add(transform(current, next))\n   current = next\n   }\n   return result\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit],\n in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Iterable<T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A

{\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   buffer.appendElement(element, transform)\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Iterable<T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Returns this collection as an [Iterable].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.asIterable(): Iterable<T> {\n   return this\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original collection returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromCollection\n */\npublic fun <T> Iterable<T>.asSequence(): Sequence<T> {\n   return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Iterable<Byte>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Iterable<Short>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Iterable<Int>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Iterable<Long>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Iterable<Float>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Iterable<Double>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Iterable<Byte>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Iterable<Short>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Iterable<Int>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Iterable<Long>.sum(): Long {\n   var sum: Long = 0L\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Iterable<Float>.sum(): Float {\n   var

sum: Float = 0.0f\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Iterable<Double>.sum(): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport kotlin.comparisons.naturalOrder\nimport kotlin.random.Random\n\n/**\n * Returns the array if it's not `null`, or an empty array otherwise.\n * @sample samples.collections.Arrays.Usage.arrayOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Array<out T>?.orEmpty(): Array<out T> = this ?: emptyArray<T>()\n\n/**\n * Returns a *typed* array containing all of the elements of this collection.\n *\n * Allocates an array of runtime type `T` having its size equal to the size of this collection\n * and populates the array with the elements of this collection.\n * @sample samples.collections.Collections.Collections.collectionToTypedArray\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Collection<T>.toTypedArray(): Array<T> = copyToArray(this)\n\n@JsName(\"copyToArray\")\n@PublishedApi\ninternal fun <T> copyToArray(collection: Collection<T>): Array<T> {\n   return if (collection.asDynamic().toArray !== undefined)\n   collection.asDynamic().toArray().unsafeCast<Array<T>>()\n   else\n   copyToArrayImpl(collection).unsafeCast<Array<T>>()\n}\n\n@JsName(\"copyToArrayImpl\")\ninternal actual fun copyToArrayImpl(collection: Collection<*>): Array<Any?> {\n   val array = emptyArray<Any?>()\n   val iterator = collection.iterator()\n   while (iterator.hasNext())\n   array.asDynamic().push(iterator.next())\n   return array\n}\n\n@JsName(\"copyToExistingArrayImpl\")\ninternal actual fun <T> copyToArrayImpl(collection: Collection<*>, array: Array<T>): Array<T> {\n   if (array.size < collection.size)\n   return copyToArrayImpl(collection).unsafeCast<Array<T>>()\n\n   val iterator = collection.iterator()\n   var index = 0\n   while (iterator.hasNext()) {\n   array[index++] = iterator.next().unsafeCast<T>()\n   }\n   if (index < array.size) {\n   array[index] = null.unsafeCast<T>()\n   }\n   return array\n}\n\n/**\n * Returns an immutable list containing only the specified object [element].\n */\npublic fun <T> listOf(element: T): List<T> = arrayListOf(element)\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal actual inline fun <E> buildListInternal(builderAction: MutableList<E>.() -> Unit): List<E> {\n   return ArrayList<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>.() -> Unit): List<E> {\n   checkBuilderCapacity(capacity)\n   return ArrayList<E>(capacity).apply(builderAction).build()\n}\n\n/**\n * Returns an immutable set containing only the specified object [element].\n */\npublic fun <T> setOf(element: T): Set<T> = hashSetOf(element)\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal actual inline fun <E> buildSetInternal(builderAction: MutableSet<E>.() -> Unit): Set<E> {\n   return LinkedHashSet<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal actual inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>.() -> Unit): Set<E> {\n   return LinkedHashSet<E>(capacity).apply(builderAction).build()\n}\n\n/**\n * Returns an immutable map, mapping only the specified key to the\n * specified value.\n */\npublic fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> = hashMapOf(pair)\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal actual inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {\n   return LinkedHashMap<K, V>().apply(builderAction).build()\n}\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\ninternal actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>.() -> Unit): Map<K, V> {\n   return LinkedHashMap<K, V>(capacity).apply(builderAction).build()\n}\n\n/**\n * Fills the list with the provided [value].\n *\n *

Each element in the list gets replaced with the [value].\n *\n@SinceKotlin(\"1.2\")\npublic actual fun <T> MutableList<T>.fill(value: T): Unit {\n   for (index in 0..lastIndex) {\n   this[index] = value\n   }\n}\n\n/**\n * Randomly shuffles elements in this list.\n *\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n *\n@SinceKotlin(\"1.2\")\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n/**\n * Returns a new list with the elements of this list randomly shuffled.\n *\n@SinceKotlin(\"1.2\")\npublic actual fun <T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n\n/**\n * Sorts elements in the list in-place according to their natural sort order.\n *\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * @sample samples.collections.Collections.Sorting.sortMutableList\n *\npublic actual fun <T : Comparable<T>> MutableList<T>.sort():

 Unit {\n   collectionsSort(this, naturalOrder())\n}\n\n/**\n * Sorts elements in the list in-place according to the order specified with [comparator].\n *\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * @sample samples.collections.Collections.Sorting.sortMutableListWith\n *\npublic actual fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\n   collectionsSort(this, comparator)\n}\n\nprivate fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {\n   if (list.size <= 1) return\n\n   val array = copyToArray(list)\n   sortArrayWith(array, comparator)\n\n   for (i in 0 until array.size) {\n   list[i] = array[i]\n   }\n}\n\ninternal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {\n   return arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin(\"1.3\")\n@PublishedApi\n@JsName(\"arrayCopy\")\ninternal fun <T> arrayCopy(source:

 Array<out T>, destination: Array<in T>, destinationOffset: Int, startIndex: Int, endIndex: Int) {\n   AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\n   val rangeSize = endIndex - startIndex\n   AbstractList.checkRangeIndexes(destinationOffset, destinationOffset + rangeSize, destination.size)\n\n   if (js(\"ArrayBuffer\").isView(destination) && js(\"ArrayBuffer\").isView(source)) {\n   val subrange = source.asDynamic().subarray(startIndex, endIndex)\n   destination.asDynamic().set(subrange, destinationOffset)\n   } else {\n   if (source !== destination || destinationOffset <= startIndex) {\n   for (index in 0 until rangeSize) {\n   destination[destinationOffset + index] = source[startIndex + index]\n   }\n   } else {\n   for (index in rangeSize - 1 downTo 0) {\n   destination[destinationOffset + index] = source[startIndex + index]\n   }\n   }\n   }\n}\n\n// no singleton

 map implementation in js, return map as is\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal actual inline fun <K, V> Map<K, V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal actual inline fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> = this.toMutableMap()\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal actual inline fun <T> Array<out T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n   if (isVarargs)\n   // no need to copy vararg array in JS\n   this\n   else\n   this.copyOf()\n\n\n@PublishedApi\ninternal actual fun checkIndexOverflow(index: Int): Int {\n   if (index < 0) {\n   throwIndexOverflow()\n   }\n   return index\n}\n\n@PublishedApi\ninternal actual fun checkCountOverflow(count: Int): Int {\n   if (count < 0) {\n   throwCountOverflow()\n   }\n   return count\n}\n\n/**\n * JS map and set implementations do not make use of capacities or load factors.\n *\n@PublishedApi\ninternal actual fun mapCapacity(expectedSize:

 Int) = expectedSize\n\n/**\n * Checks a collection builder function capacity argument.\n * In JS no validation is made in Map/Set constructor yet.\n *\n@SinceKotlin(\"1.3\")\n@PublishedApi\ninternal fun checkBuilderCapacity(capacity: Int) {\n   require(capacity >= 0) { \"capacity must be non-negative.\" }\n}\n\ninternal actual fun brittleContainsOptimizationEnabled(): Boolean = false","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\n\n/**\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for`

loop.\n * @sample samples.collections.Iterators.iterator\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Iterator<T>.iterator(): Iterator<T> =
 this\n\n/**\n * Returns an [Iterator] that wraps each element produced by the original iterator\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n * @sample samples.collections.Iterators.withIndexIterator\n */\npublic fun <T> Iterator<T>.withIndex(): Iterator<IndexedValue<T>> = IndexingIterator(this)\n\n/**\n * Performs the given [operation] on each element of this [Iterator].\n * @sample samples.collections.Iterators.forEachIterator\n */\npublic inline fun <T> Iterator<T>.forEach(operation: (T) -> Unit): Unit {\n   for (element in this) operation(element)\n}\n\n/**\n * Iterator transforming original `iterator` into iterator of [IndexedValue], counting index from zero.\n */\ninternal class IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {\n   private var index = 0\n   final override fun hasNext(): Boolean = iterator.hasNext()\n   final override fun next(): IndexedValue<T> = IndexedValue(checkIndexOverflow(index++),
 iterator.next())\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\n\npackage kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nimport kotlin.random.\n\n/**\n * Returns the greater of two values.\n * \n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T): T\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short): Short\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double): Double\n\n/**\n * Returns the greater of three values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> maxOf(a: T,
 b: T, c: T): T\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the greater of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the greater of three values.\n * \n * If any value is `NaN`, returns
 `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the greater of three values according to the order specified by the given [comparator].\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n   return maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the greater of two values according to the order specified by the given [comparator].\n * \n * If values are equal, returns the first one.\n

*/\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {\n   return if (comparator.compare(a, b) >= 0) a else b\n}\n\n/**\n * Returns the greater of the given values.\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun <T : Comparable<T>>

 maxOf(a: T, vararg other: T): T\n\n/**\n * Returns the greater of the given values.\n

*/\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Byte, vararg other: Byte): Byte\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Short, vararg other: Short): Short\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Int, vararg other: Int): Int\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Long, vararg other: Long): Long\n\n/**\n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Float, vararg other: Float): Float\n\n/**\n * Returns the greater of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.4\")\npublic expect fun maxOf(a: Double, vararg other: Double): Double\n\n/**\n * Returns the

 greater of the given values according to the order specified by the given [comparator].\n * \n * If there are multiple equal maximal values, returns the first of them.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> maxOf(a: T, vararg other: T, comparator: Comparator<in T>): T {\n   var max = a\n   for (e in other) if (comparator.compare(max, e) < 0) max = e\n   return max\n}\n\n/**\n * Returns the smaller of two values.\n * \n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T): T\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the smaller of two values.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short): Short\n\n/**\n * Returns the smaller of two values.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic

 expect inline fun minOf(a: Int, b: Int): Int\n\n/**\n * Returns the smaller of two values.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long): Long\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float): Float\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, returns `NaN`.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double): Double\n\n/**\n * Returns the smaller of three values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b:

 Byte, c: Byte): Byte\n\n/**\n * Returns the smaller of three values.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the smaller of three values.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the smaller of three values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the

 smaller of three values according to the order specified by the given [comparator].\n * \n * If there are multiple equal minimal values, returns the first of them.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n   return minOf(a, minOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the smaller of two values according to the order specified by the given [comparator].\n * \n * If values are

equal, returns the first one.\n *\n@SinceKotlin(\"1.1\")\npublic fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\n   return if (comparator.compare(a, b) <= 0) a else b\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If there are multiple equal minimal values, returns the first of them.\n *\n@SinceKotlin(\"1.4\")\npublic expect fun <T : Comparable<T>> minOf(a: T, vararg other: T): T\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Byte, vararg other:

 Byte): Byte\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Short, vararg other: Short): Short\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Int, vararg other: Int): Int\n\n/**\n * Returns the smaller of the given values.\n *\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Long, vararg other: Long): Long\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Float, vararg other: Float): Float\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n *\n@SinceKotlin(\"1.4\")\npublic expect fun minOf(a: Double, vararg other: Double): Double\n\n/**\n * Returns the smaller of the given values according to the order specified by the given [comparator].\n * \n * If there are multiple equal minimal values, returns the first

 of them.\n *\n@SinceKotlin(\"1.4\")\npublic fun <T> minOf(a: T, vararg other: T, comparator: Comparator<in T>): T {\n   var min = a\n   for (e in other) if (comparator.compare(min, e) > 0) min = e\n   return min\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n *

 @sample samples.collections.Collections.Transformations.firstNotNullOf\n *\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K, V>.firstNotNullOf(transform: (Map.Entry<K, V>) -> R?): R {\n   return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException(\"No element of the map was transformed to a non-null value.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n *\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K, V>.firstNotNullOfOrNull(transform: (Map.Entry<K, V>) -> R?): R? {\n   for (element in this) {\n   val result = transform(element)\n   if (result != null) {\n   return result\n   }\n   }\n   return null\n}\n\n/**\n * Returns a [List]

 containing all key-value pairs.\n *\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n   if (size == 0)\n   return emptyList()\n   val iterator = entries.iterator()\n   if (!iterator.hasNext())\n   return emptyList()\n   val first = iterator.next()\n   if (!iterator.hasNext())\n   return listOf(first.toPair())\n   val result = ArrayList<Pair<K, V>>(size)\n   result.add(first.toPair())\n   do {\n   result.add(iterator.next().toPair())\n   } while (iterator.hasNext())\n   return result\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n * \n * @sample samples.collections.Maps.Transformations.flatMap\n *\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function
 being invoked on each entry of original map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequence\")\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapSequenceTo\")\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Sequence<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each entry in the original map.\n * \n * @sample samples.collections.Maps.Transformations.mapToList\n */\npublic inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each entry in the original map.\n * \n * @sample samples.collections.Maps.Transformations.mapNotNull\n */\npublic inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n   return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <K, V, R : Any, C : MutableCollection<in R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n   forEach { element -> transform(element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each entry of the original map\n * and appends the results to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Returns `true` if all entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <K, V> Map<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n   if (isEmpty()) return true\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if map has at least one entry.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <K, V> Map<out K, V>.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one entry matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n   if (isEmpty()) return false\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the number of entries in this map.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of entries matching the given [predicate].\n */\npublic inline fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n   if (isEmpty()) return 0\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Performs the given [action] on each entry.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K, V>) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n   return

maxByOrNull(selector)\n}\n\n/**\n

 * Returns the first entry yielding the largest value of the given function or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n   return entries.maxByOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector: (Map.Entry<K, V>) -> Double): Double {\n   return entries.maxOf(selector)\n}\n\n/**\n * Returns

 the largest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector: (Map.Entry<K, V>) -> Float): Float {\n   return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxOf(selector: (Map.Entry<K, V>) -> R):

 R {\n   return entries.maxOf(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n   return entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <K, V> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n   return entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n   return entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <K, V, R> Map<out K, V>.maxOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n   return entries.maxOfWith(comparator, selector)\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map or\n * `null` if there are no entries.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n   return entries.maxOfWithOrNull(comparator, selector)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxWith(comparator:

 Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n   return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no entries.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n   return entries.maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n   return minByOrNull(selector)\n}\n\n/**\n * Returns the first entry yielding the smallest value of the given function or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n

 */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n   return entries.minByOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> Double): Double {\n   return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the

 returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> Float): Float {\n   return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minOf(selector: (Map.Entry<K, V>) -> R): R {\n   return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if

 there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n   return entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n   return entries.minOfOrNull(selector)\n}\n\n/**\n * Returns

the smallest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there are no entries.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.minOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n   return entries.minOfOrNull(selector)\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n   return entries.minOfWith(comparator,

 selector)\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there are no entries.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K, V>.minOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n   return entries.minOfWithOrNull(comparator, selector)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n   return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first entry having the smallest value according to the provided [comparator]

 or `null` if there are no entries.\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n   return entries.minWithOrNull(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <K, V> Map<out K, V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n   if (isEmpty()) return true\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Performs the given [action] on each entry and returns the map itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <K, V, M : Map<out K, V>> M.onEach(action:

 (Map.Entry<K, V>) -> Unit): M {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each entry, providing sequential index with the entry,\n * and returns the map itself afterwards.\n * @param [action] function that takes the index of an entry and the entry itself\n * and performs the action on the entry.\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <K, V, M : Map<out K, V>> M.onEachIndexed(action: (index: Int, Map.Entry<K, V>) -> Unit): M {\n   return apply { entries.forEachIndexed(action) }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original map returning its entries when being iterated.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {\n   return entries\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original map returning its entries when being iterated.\n */\npublic fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K,

 V>> {\n   return entries.asSequence()\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\n// 10 mappings totally\ninternal fun Char.titlecaseImpl(): String {\n   val uppercase = uppercase()\n   if (uppercase.length > 1) {\n   return if (this == '\\u0149') uppercase else uppercase[0] + uppercase.substring(1).lowercase()\n   }\n   return

titlecaseChar().toString()\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n */\n@Deprecated(\"Use lowercaseChar() instead.\", ReplaceWith(\"lowercaseChar()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toLowerCase(): Char = lowercaseChar()\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many character mapping use the [lowercase] function.\n * If this character has no mapping equivalent, the character itself is returned.\n *\n * @sample samples.text.Chars.lowercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.lowercaseChar(): Char = lowercase()[0]\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.\n * For example, `'\\u0130'.lowercase()` returns `\"\\u0069\\u0307\"`,\n * where `'\\u0130'` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (`\u0130`).\n * If this character has no lower case mapping, the result of `toString()` of this char is returned.\n *\n * @sample samples.text.Chars.lowercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.lowercase(): String = toString().asDynamic().toLowerCase().unsafeCast<String>()\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n */\n@Deprecated(\"Use uppercaseChar() instead.\", ReplaceWith(\"uppercaseChar()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toUpperCase(): Char = uppercaseChar()\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many character mapping use the [uppercase] function.\n * If this character has no mapping equivalent, the character itself is returned.\n *\n * @sample samples.text.Chars.uppercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Char.uppercaseChar(): Char {\n   val uppercase = uppercase()\n   return if (uppercase.length > 1) this else uppercase[0]\n}\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.\n * For example, `'\\uFB00'.uppercase()` returns `\"\\u0046\\u0046\"`,\n * where `'\\uFB00'` is the LATIN SMALL LIGATURE FF character (`\ufb00`).\n * If this character has no upper case mapping, the result of `toString()` of this char is returned.\n *\n * @sample samples.text.Chars.uppercase\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.uppercase(): String = toString().asDynamic().toUpperCase().unsafeCast<String>()\n\n/**\n * Converts this character to title case using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many character mapping use the [titlecase] function.\n * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.\n *\n * @sample samples.text.Chars.titlecase\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.titlecaseChar(): Char = titlecaseCharImpl()\n\n/**\n * Returns `true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).\n */\npublic actual fun Char.isHighSurrogate(): Boolean = this in Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n/**\n * Returns `true` if this character is a Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\n */\npublic actual fun Char.isLowSurrogate(): Boolean = this in Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n\n/**\n * Returns the Unicode general category of this character.\n */\n@SinceKotlin(\"1.5\")\npublic actual val Char.category: CharCategory\n   get() =

CharCategory.valueOf(getCategoryValue()))\n\n/**\n * Returns `true` if this character (Unicode code point) is defined in Unicode.\n *\n * A character is considered to be defined in Unicode if its [category] is not [CharCategory.UNASSIGNED].\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isDefined(): Boolean {\n   if (this < '\\u0080') {\n   return true\n   }\n   return getCategoryValue() != CharCategory.UNASSIGNED.value\n}\n\n/**\n * Returns `true` if this character is a letter.\n *\n * A character is considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER],\n * [CharCategory.LOWERCASE_LETTER],
 [CharCategory.TITLECASE_LETTER], [CharCategory.MODIFIER_LETTER], or [CharCategory.OTHER_LETTER].\n *\n * @sample samples.text.Chars.isLetter\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isLetter(): Boolean {\n   if (this in 'a'..'z' || this in 'A'..'Z') {\n   return true\n   }\n   if (this < '\\u0080') {\n   return false\n   }\n   return isLetterImpl()\n}\n\n/**\n * Returns `true` if this character is a letter or digit.\n *\n * @see isLetter\n * @see isDigit\n *\n * @sample samples.text.Chars.isLetterOrDigit\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isLetterOrDigit(): Boolean {\n   if (this in 'a'..'z' || this in 'A'..'Z' || this in '0'..'9') {\n   return true\n   }\n   if (this < '\\u0080') {\n   return false\n   }\n\n   return isDigitImpl() || isLetterImpl()\n}\n\n/**\n * Returns `true` if this character is a digit.\n *\n * A character is considered to be a digit if its [category] is [CharCategory.DECIMAL_DIGIT_NUMBER].\n *\n * @sample samples.text.Chars.isDigit\n
 */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isDigit(): Boolean {\n   if (this in '0'..'9') {\n   return true\n   }\n   if (this < '\\u0080') {\n   return false\n   }\n   return isDigitImpl()\n}\n\n/**\n * Returns `true` if this character is upper case.\n *\n * A character is considered to be an upper case character if its [category] is [CharCategory.UPPERCASE_LETTER],\n * or it has contributory property `Other_Uppercase` as defined by the Unicode Standard.\n *\n * @sample samples.text.Chars.isUpperCase\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isUpperCase(): Boolean {\n   if (this in 'A'..'Z') {\n   return true\n   }\n   if (this < '\\u0080') {\n   return false\n   }\n   return isUpperCaseImpl()\n}\n\n/**\n * Returns `true` if this character is lower case.\n *\n * A character is considered to be a lower case character if its [category] is [CharCategory.LOWERCASE_LETTER],\n * or it has contributory property `Other_Lowercase`
 as defined by the Unicode Standard.\n *\n * @sample samples.text.Chars.isLowerCase\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isLowerCase(): Boolean {\n   if (this in 'a'..'z') {\n   return true\n   }\n   if (this < '\\u0080') {\n   return false\n   }\n   return isLowerCaseImpl()\n}\n\n/**\n * Returns `true` if this character is a title case letter.\n *\n * A character is considered to be a title case letter if its [category] is [CharCategory.TITLECASE_LETTER].\n *\n * @sample samples.text.Chars.isTitleCase\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isTitleCase(): Boolean {\n   if (this < '\\u0080') {\n   return false\n   }\n   return getCategoryValue() == CharCategory.TITLECASE_LETTER.value\n}\n\n/**\n * Returns `true` if this character is an ISO control character.\n *\n * A character is considered to be an ISO control character if its [category] is [CharCategory.CONTROL],\n * meaning the Char is in the range `'\\u0000'..'\\u001F'`
 or in the range `'\\u007F'..'\\u009F'`.\n *\n * @sample samples.text.Chars.isISOControl\n */\n@SinceKotlin(\"1.5\")\npublic actual fun Char.isISOControl(): Boolean {\n   return this <= '\\u001F' || this in '\\u007F'..'\\u009F'\n}\n\n/**\n * Determines whether a character is whitespace according to the Unicode standard.\n * Returns `true` if the character is whitespace.\n *\n * @sample samples.text.Chars.isWhitespace\n */\npublic actual fun Char.isWhitespace(): Boolean = isWhitespaceImpl()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n * Converts the characters in the specified array to a string.\n */\n@SinceKotlin(\"1.2\")\n@Deprecated(\"Use CharArray.concatToString() instead\",
 ReplaceWith(\"chars.concatToString()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
 errorSince = \"1.5\")\npublic actual fun String(chars: CharArray): String {\n   var result = \"\"\n   for (char in chars) {\n   result += char\n   }\n   return result\n}\n\n/**\n * Converts the characters from a portion of the specified array to a string.\n *\n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than

zero\n * or `offset + length` is out of [chars] array bounds.\n */\n@SinceKotlin(\"1.2\")\n@Deprecated(\"Use CharArray.concatToString(startIndex, endIndex) instead\", ReplaceWith(\"chars.concatToString(offset, offset + length)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\")\npublic actual fun String(chars: CharArray, offset: Int, length: Int): String {\n   if (offset < 0 || length < 0 || chars.size - offset < length)\n   throw IndexOutOfBoundsException(\"size: ${chars.size}; offset: $offset; length: $length\")\n   var result = \"\"\n   for (index in offset until offset + length) {\n   result += chars[index]\n

    }\n   return result\n}\n\n/**\n * Concatenates characters in this [CharArray] into a String.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun CharArray.concatToString(): String {\n   var result = \"\"\n   for (char in this) {\n   result += char\n   }\n   return result\n}\n\n/**\n * Concatenates characters in this [CharArray] or its subrange into a String.\n *\n * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\n * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {\n   AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n   var result = \"\"\n   for (index in startIndex until endIndex) {\n   result += this[index]\n   }\n   return result\n}\n\n/**\n * Returns a [CharArray] containing characters of this string.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun String.toCharArray(): CharArray {\n   return CharArray(length) { get(it) }\n}\n\n/**\n * Returns a [CharArray] containing characters of this string or its substring.\n *\n * @param startIndex the beginning (inclusive) of the substring, 0 by default.\n * @param endIndex the end (exclusive) of the substring, length of this string by default.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic

 actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {\n   AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n   return CharArray(endIndex - startIndex) { get(startIndex + it) }\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array.\n *\n * Malformed byte sequences are replaced by the replacement char `\\uFFFD`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun ByteArray.decodeToString(): String {\n   return decodeUtf8(this, 0, size, false)\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.\n *\n * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to decode, size of this array by default.\n * @param throwOnInvalidSequence

 specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char `\\uFFFD`.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ByteArray.decodeToString(\n   startIndex: Int = 0,\n   endIndex: Int = this.size,\n   throwOnInvalidSequence: Boolean = false\n): String {\n   AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n   return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n/**\n * Encodes this string to an array of bytes in UTF-8 encoding.\n *\n * Any malformed char sequence is replaced by the replacement byte sequence.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun

String.encodeToByteArray(): ByteArray {\n   return encodeUtf8(this, 0, length, false)\n}\n\n/**\n * Encodes this string or its substring to an array of bytes in UTF-8 encoding.\n *\n * @param startIndex the beginning (inclusive) of the substring to encode, 0 by default.\n * @param endIndex the end (exclusive) of the substring to encode, length of this string by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed char sequence or replace.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\n *\/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic

 actual fun String.encodeToByteArray(\n   startIndex: Int = 0,\n   endIndex: Int = this.length,\n   throwOnInvalidSequence: Boolean = false\n): ByteArray {\n   AbstractList.checkBoundsIndexes(startIndex, endIndex, length))\n   return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the default locale.\n *\/\n@Deprecated(\"Use uppercase() instead.\", ReplaceWith(\"uppercase()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string converted to upper case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the

 returned string can be different from the length of the original string.\n *\n * @sample samples.text.Strings.uppercase\n *\/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun String.uppercase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string converted to lower case using the rules of the default locale.\n *\/\n@Deprecated(\"Use lowercase() instead.\", ReplaceWith(\"lowercase()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()\n\n/**\n * Returns a copy of this string converted to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n *\n * @sample samples.text.Strings.lowercase\n *\/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic

 actual inline fun String.lowercase(): String = asDynamic().toLowerCase()\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(str: String, fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s, position)\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeEndsWith(s: String): Boolean = asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int): String = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int, endIndex: Int):

 String = asDynamic().substring(startIndex, endIndex)\n\n@Deprecated(\"Use String.plus() instead\", ReplaceWith(\"this + str\"))\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun String.concat(str: String): String = asDynamic().concat(str)\n\n@Deprecated(\"Use Regex.findAll() instead or invoke matches() on String dynamically: this.asDynamic().match(regex)\")\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@kotlin.internal.InlineOnly\npublic inline fun String.match(regex: String): Array<String>? = asDynamic().match(regex)\n\n//native public fun String.trim(): String\n//TODO: String.replace to implement

---

effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern, replacement)\n\n/**\n * Compares two strings lexicographically, optionally ignoring case differences.\n *\n * If [ignoreCase] is true, the result of `Char.uppercaseChar().lowercaseChar()`
 on each character is compared.\n
 */\n@SinceKotlin(\"1.2\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n   if (ignoreCase) {\n   val n1 = this.length\n   val n2 = other.length\n   val min = minOf(n1, n2)\n   if (min == 0) return n1 - n2\n   for (index in 0 until min) {\n   var thisChar = this[index]\n   var otherChar = other[index]\n\n   if (thisChar != otherChar) {\n   thisChar = thisChar.uppercaseChar()\n   otherChar = otherChar.uppercaseChar()\n\n   if (thisChar != otherChar) {\n   thisChar = thisChar.lowercaseChar()\n   otherChar = otherChar.lowercaseChar()\n\n   if (thisChar != otherChar) {\n   return thisChar.compareTo(otherChar)\n   }\n   }\n   }\n
    }\n   return n1 - n2\n   } else {\n   return compareTo(other)\n   }\n}\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the contents of the specified [other],\n * i.e. both char sequences contain the same number of the same characters in the same order.\n *\n * @sample samples.text.Strings.contentEquals\n */\n@SinceKotlin(\"1.5\")\npublic actual infix fun CharSequence?.contentEquals(other: CharSequence?): Boolean = contentEqualsImpl(other)\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the contents of the specified [other], optionally ignoring case difference.\n *\n * @param ignoreCase `true` to ignore character case when comparing contents.\n *\n * @sample samples.text.Strings.contentEquals */\n@SinceKotlin(\"1.5\")\npublic actual fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase: Boolean): Boolean {\n   return if (ignoreCase)\n   this.contentEqualsIgnoreCaseImpl(other)\n   else\n   this.contentEqualsImpl(other)\n}\n\n\nprivate val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }\n\n@SinceKotlin(\"1.2\")\npublic actual val String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>\n   get() = STRING_CASE_INSENSITIVE_ORDER\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
 */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CharsKt\")\n\npackage kotlin.text\n\n/**\n * Returns the numeric value of the decimal digit that this Char represents.\n * Throws an exception if this Char is not a valid decimal digit.\n *\n * A Char is considered to represent a decimal digit if [isDigit] is true for the Char.\n * In this case, the Unicode decimal digit value of the character is returned.\n *\n * @sample samples.text.Chars.digitToInt\n
 */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
 fun Char.digitToInt(): Int {\n   return digitOf(this, 10).also {\n   if (it < 0) throw IllegalArgumentException(\"Char $this is not a decimal digit\")\n   }\n}\n\n/**\n * Returns the numeric value of the digit that this Char represents in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36` or if this Char is not a valid digit in the specified [radix].\n *\n * A Char is considered to represent a digit in the specified [radix] if at least one of the following is true:\n * - [isDigit] is `true` for the Char and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit value is returned.\n * - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.\n * - The Char is one of the lowercase Latin letters 'a' through
 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.\n * - The Char is one of the fullwidth Latin capital letters '\\uFF21' through '\\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned.\n * - The Char is one of the fullwidth Latin small letters '\\uFF41' through '\\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.\n *\n * @sample samples.text.Chars.digitToInt\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToInt(radix: Int): Int {\n   return digitToIntOrNull(radix) ?: throw IllegalArgumentException(\"Char $this is not a digit in the given radix=$radix\")\n}\n\n/**\n *\n * Returns the numeric value of the decimal digit that this Char represents, or `null` if this Char is not a valid decimal digit.\n *\n * A Char is considered to represent a decimal digit if [isDigit] is true for the Char.\n * In this case, the Unicode decimal digit value of the character is returned.\n *\n * @sample samples.text.Chars.digitToIntOrNull\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToIntOrNull(): Int? {\n   return digitOf(this, 10).takeIf { it >= 0 }\n}\n\n/**\n * Returns the numeric value of the digit that this Char represents in the specified [radix], or `null` if this Char is not a valid digit in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36`.\n *\n * A Char is considered to represent a digit in the specified [radix] if at least one of the following is true:\n * - [isDigit] is `true` for the Char and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit value is returned.\n * - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.\n * - The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.\n * - The Char is one of the fullwidth Latin capital letters '\\uFF21' through '\\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned.\n * - The Char is one of the fullwidth Latin small letters '\\uFF41' through '\\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.\n *\n * @sample samples.text.Chars.digitToIntOrNull\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToIntOrNull(radix: Int): Int? {\n   checkRadix(radix)\n   return digitOf(this, radix).takeIf { it >= 0 }\n}\n\n/**\n * Returns the Char that represents this decimal digit.\n * Throws an exception if this value is not in the range `0..9`.\n *\n * If this value is in `0..9`, the decimal digit Char with code `'0'.code + this` is returned.\n *\n * @sample samples.text.Chars.digitToChar\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(): Char {\n   if (this in 0..9) {\n   return '0' + this\n   }\n   throw IllegalArgumentException(\"Int $this is not a decimal digit\")\n}\n\n/**\n * Returns the Char that represents this numeric digit value in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36` or if this value is not in the range `0 until radix`.\n *\n * If this value is less than `10`, the decimal digit Char with code `'0'.code + this` is returned.\n * Otherwise, the uppercase Latin letter with code `'A'.code + this - 10` is returned.\n *\n * @sample samples.text.Chars.digitToChar\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(radix: Int): Char {\n   if (radix !in 2..36) {\n   throw IllegalArgumentException(\"Invalid radix: $radix. Valid radix values are in range 2..36\")\n   }\n   if (this < 0 || this >= radix) {\n   throw IllegalArgumentException(\"Digit $this does not represent a valid digit in radix $radix\")\n   }\n   return if (this < 10) {\n   '0' + this\n   } else {\n   'A' + this - 10\n   }\n}\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n

*/\n@Deprecated(\"Use lowercaseChar() instead.\", ReplaceWith(\"lowercaseChar()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic expect fun Char.toLowerCase(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many character mapping use the [lowercase] function.\n * If this character has no mapping equivalent, the character itself is returned.\n *\n * @sample samples.text.Chars.lowercase\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.lowercaseChar(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.\n * For example, `'\\u0130'.lowercase()` returns `\"\\u0069\\u0307\"`,\n * where

`\\u0130` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (`\ufffd\ufffd`).\n * If this character has no lower case mapping, the result of `toString()` of this char is returned.\n *\n * @sample samples.text.Chars.lowercase\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.lowercase(): String\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n */\n@Deprecated(\"Use uppercaseChar() instead.\", ReplaceWith(\"uppercaseChar()\"))\n@DeprecatedSinceKotlin(warningSince

 = \"1.5\")\npublic expect fun Char.toUpperCase(): Char\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many character mapping use the [uppercase] function.\n * If this character has no mapping equivalent, the character itself is returned.\n *\n * @sample samples.text.Chars.uppercase\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.uppercaseChar(): Char\n\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.\n * For example, `'\\uFB00'.uppercase()` returns `\"\\u0046\\u0046\"`,\n * where `'\\uFB00'` is the LATIN SMALL LIGATURE FF character (`\ufffd\ufffd\ufffd`).\n * If this character has no upper case mapping,

 the result of `toString()` of this char is returned.\n *\n * @sample samples.text.Chars.uppercase\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.uppercase(): String\n\n/**\n * Converts this character to title case using Unicode mapping rules of the invariant locale.\n *\n * This function performs one-to-one character mapping.\n * To support one-to-many character mapping use the [titlecase] function.\n * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.\n *\n * @sample samples.text.Chars.titlecase\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.titlecaseChar(): Char\n\n/**\n * Converts this character to title case using Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.\n * For example, `'\\uFB00'.titlecase()` returns `\"\\u0046\\u0066\"`,\n * where `'\\uFB00'`

 is the LATIN SMALL LIGATURE FF character (`\ufffd\ufffd\ufffd`).\n * If this character has no title case mapping, the result of [uppercase] is returned instead.\n *\n * @sample samples.text.Chars.titlecase\n

*/\n@SinceKotlin(\"1.5\")\npublic fun Char.titlecase(): String = titlecaseImpl()\n\n/**\n * Concatenates this Char and a String.\n *\n * @sample samples.text.Chars.plus\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun Char.plus(other: String): String = this.toString() + other\n\n/**\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.\n *\n * Two characters are considered equal ignoring case if `Char.uppercaseChar().lowercaseChar()` on each character produces the same result.\n *\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n * @sample samples.text.Chars.equals\n */\npublic fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {\n   if (this ==

 other) return true\n   if (!ignoreCase) return false\n\n   val thisUpper = this.uppercaseChar()\n   val otherUpper = other.uppercaseChar()\n\n   return thisUpper == otherUpper || thisUpper.lowercaseChar() == otherUpper.lowercaseChar()\n}\n\n/**\n * Returns `true` if this character is a Unicode surrogate code unit.\n */\npublic fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE\n\n/**\n * Returns the Unicode general category of this character.\n */\n@SinceKotlin(\"1.5\")\npublic expect val Char.category: CharCategory\n\n/**\n * Returns `true` if this character (Unicode code point) is defined in Unicode.\n *\n * A character is considered to be defined in Unicode if its [category] is not [CharCategory.UNASSIGNED].\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isDefined(): Boolean\n\n/**\n * Returns `true` if this character is a letter.\n *\n * A character is considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER],\n * [CharCategory.LOWERCASE_LETTER],

[CharCategory.TITLECASE_LETTER], [CharCategory.MODIFIER_LETTER], or [CharCategory.OTHER_LETTER].\n *\n * @sample samples.text.Chars.isLetter\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isLetter(): Boolean\n\n/**\n * Returns `true` if this character is a letter or digit.\n *\n * @see isLetter\n * @see isDigit\n *\n * @sample samples.text.Chars.isLetterOrDigit\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isLetterOrDigit(): Boolean\n\n/**\n * Returns `true` if this character is a digit.\n *\n * A character is considered to be a digit if its [category] is [CharCategory.DECIMAL_DIGIT_NUMBER].\n *\n * @sample samples.text.Chars.isDigit\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isDigit(): Boolean\n\n/**\n * Returns `true` if this character is upper case.\n *\n * A character is considered to be an upper case character if its [category] is [CharCategory.UPPERCASE_LETTER],\n * or it has contributory property `Other_Uppercase` as defined by the Unicode Standard.\n *\n * @sample samples.text.Chars.isUpperCase\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isUpperCase(): Boolean\n\n/**\n * Returns `true` if this character is lower case.\n *\n * A character is considered to be a lower case character if its [category] is [CharCategory.LOWERCASE_LETTER],\n * or it has contributory property `Other_Lowercase` as defined by the Unicode Standard.\n *\n * @sample samples.text.Chars.isLowerCase\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isLowerCase(): Boolean\n\n/**\n * Returns `true` if this character is a title case letter.\n *\n * A character is considered to be a title case letter if its [category] is [CharCategory.TITLECASE_LETTER].\n *\n * @sample samples.text.Chars.isTitleCase\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isTitleCase(): Boolean\n\n/**\n * Returns `true` if this character is an ISO control character.\n *\n * A character is considered to be an ISO control character if its [category] is [CharCategory.CONTROL],\n * meaning the Char is in the range `'\\u0000'..'\\u001F'` or in the range `'\\u007F'..'\\u009F'`.\n *\n * @sample samples.text.Chars.isISOControl\n */\n@SinceKotlin(\"1.5\")\npublic expect fun Char.isISOControl(): Boolean\n\n/**\n * Determines whether a character is whitespace according to the Unicode standard.\n * Returns `true` if the character is whitespace.\n *\n * @sample samples.text.Chars.isWhitespace\n */\npublic expect fun Char.isWhitespace(): Boolean\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\n/**\n * Creates a Char with the specified [code], or throws an exception if the [code] is out of `Char.MIN_VALUE.code..Char.MAX_VALUE.code`.\n *\n * If the program that calls this function is written in a way that only valid [code] is passed as the argument,\n * using the overload that takes a [UShort] argument is preferable (`Char(intValue.toUShort())`).\n * That overload doesn't check validity of the argument, and may improve program performance when the function is called routinely inside a loop.\n *\n * @sample samples.text.Chars.charFromCode\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Char(code: Int): Char {\n   if (code < Char.MIN_VALUE.code || code > Char.MAX_VALUE.code) {\n   throw IllegalArgumentException(\"Invalid Char code: $code\")\n   }\n   return code.toChar()\n}\n\n/**\n * Creates a Char with the specified [code].\n *\n * @sample samples.text.Chars.charFromCode\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun Char(code: UShort): Char\n\n/**\n * Returns the code of this Char.\n *\n * Code of a Char is the value it was constructed with, and the UTF-16 code unit corresponding to this Char.\n *\n * @sample samples.text.Chars.code\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION\")\npublic inline val Char.code: Int get() = this.toInt()\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n\npackage kotlin.sequences\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns `true` if [element] is found in the sequence.\n *\n * The operation is _terminal_.\n */\npublic operator fun

<@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns

 an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Sequence<T>.elementAt(index: Int): T {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"Sequence doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n   if (index < 0)\n   return defaultValue(index)\n   val iterator = iterator()\n   var count = 0\n   while (iterator.hasNext()) {\n   val element = iterator.next()\n   if (index == count++)\n

    return element\n   }\n   return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T> Sequence<T>.elementAtOrNull(index: Int): T? {\n   if (index < 0)\n   return null\n   val iterator = iterator()\n   var count = 0\n   while (iterator.hasNext()) {\n   val element = iterator.next()\n   if (index == count++)\n

 return element\n   }\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the

 given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.first(): T {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   throw NoSuchElementException(\"Sequence is empty.\")\n   return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Sequence

 contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this sequence in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Sequence<T>.firstNotNullOf(transform: (T) -> R?): R {\n   return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException(\"No element of the sequence was transformed to a non-null value.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to elements of this sequence in iteration order,\n * or `null` if no non-null value was produced.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic

 inline fun <T, R : Any> Sequence<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n   for (element in this) {\n   val result = transform(element)\n   if (result != null) {\n   return result\n   }\n   }\n   return null\n}\n\n/**\n * Returns the first element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.firstOrNull(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   return null\n   return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T>

Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns first index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (element == item)\n   return index\n   index++\n   }\n   return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (predicate(item))\n   return index\n   index++\n   }\n   return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n   var lastIndex = -1\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (predicate(item))\n   lastIndex = index\n   index++\n   }\n   return lastIndex\n}\n\n/**\n * Returns the last element.\n *\n * The operation is _terminal_.\n * \n * @throws NoSuchElementException if the sequence is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Sequence<T>.last(): T {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   throw NoSuchElementException(\"Sequence is empty.\")\n   var last = iterator.next()\n   while (iterator.hasNext())\n   last = iterator.next()\n   return last\n}\n\n/**\n * Returns the last element matching the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Sequence<T>.last(predicate: (T) -> Boolean): T {\n   var last: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   last = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return last as T\n}\n\n/**\n * Returns last index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {\n   var lastIndex = -1\n   var index = 0\n   for (item in this) {\n   checkIndexOverflow(index)\n   if (element == item)\n   lastIndex = index\n   index++\n   }\n   return lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   return null\n   var last = iterator.next()\n   while (iterator.hasNext())\n   last = iterator.next()\n   return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n   var last: T? = null\n   for (element in this) {\n   if (predicate(element)) {\n   last = element\n   }\n   }\n   return last\n}\n\n/**\n * Returns the single element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.single(): T {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   throw NoSuchElementException(\"Sequence is empty.\")\n   val single = iterator.next()\n   if (iterator.hasNext())\n   throw IllegalArgumentException(\"Sequence has more than one element.\")\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.single(predicate: (T) -> Boolean): T {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Sequence contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found)\n   throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as T\n}\n\n/**\n * Returns single element, or `null` if the

sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic
 fun <T> Sequence<T>.singleOrNull(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   return
null\n   val single = iterator.next()\n   if (iterator.hasNext())\n   return null\n   return single\n}\n\n/**\n *
Returns the single element matching the given [predicate], or `null` if element was not found or more than one
element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T>
Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n   var single: T? = null\n   var found = false\n   for
(element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n
found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns a sequence containing
all elements except first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n
 */\npublic fun <T> Sequence<T>.drop(n: Int): Sequence<T> {\n   require(n >= 0) { \"Requested element count $n
is less than zero.\" }\n   return when {\n   n == 0 -> this\n   this is DropTakeSequence -> this.drop(n)\n
else -> DropSequence(this, n)\n   }\n}\n\n/**\n * Returns a sequence containing all elements except first elements
that satisfy the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.dropWhile(predicate: (T)
-> Boolean): Sequence<T> {\n   return DropWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence
containing only elements matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n
* \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic fun <T> Sequence<T>.filter(predicate:
(T) -> Boolean): Sequence<T> {\n   return
 FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the
given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n *
\n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic fun <T>
Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {\n   // TODO: Rewrite with
generalized MapFilterIndexingSequence\n   return
TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), { it.value
})\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n *\n * The operation is _terminal_.\n
 * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C :
MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C
{\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n
return destination\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type
parameter R.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R>
Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {\n
@Suppress(\"UNCHECKED_CAST\")\n   return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends all
elements that are instances of specified type parameter R to the given [destination].\n *\n * The operation is
terminal.\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n
 /\npublic inline fun <reified R, C : MutableCollection<in R>> Sequence<>.filterIsInstanceTo(destination: C): C
{\n   for (element in this) if (element is R) destination.add(element)\n   return destination\n}\n\n/**\n * Returns a
sequence containing all elements not matching the given [predicate].\n *\n * The operation is _intermediate_ and
stateless.\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic fun <T>
Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {\n   return FilteringSequence(this, false,
predicate)\n}\n\n/**\n * Returns a sequence containing all elements that are not `null`.\n *\n * The operation is
intermediate and _stateless_.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n
*/\npublic fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {\n

@Suppress(\"UNCHECKED_CAST\")\n   return filterNot { it == null } as Sequence<T>\n}\n\n/**\n * Appends all elements that are not `null`
 to the given [destination].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\n */\npublic fun <C : MutableCollection<in T>, T : Any> Sequence<T?>.filterNotNullTo(destination: C): C {\n   for (element in this) if (element != null) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun
 <T, C : MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Returns a sequence containing first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Sequence<T>.take(n: Int): Sequence<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return when {\n   n == 0 -> emptySequence()\n   this is DropTakeSequence -> this.take(n)\n   else -> TakeSequence(this, n)\n   }\n}\n\n/**\n * Returns a sequence containing first elements satisfying the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Sequence<T>.takeWhile(predicate:
 (T) -> Boolean): Sequence<T> {\n   return TakeWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n   return object : Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val sortedList = this@sorted.toMutableList()\n   sortedList.sort()\n   return sortedList.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is
 intermediate and _stateful_.\n * \n * @sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {\n   return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * The operation is _intermediate_ and _stateful_.\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative
 to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {\n   return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {\n   return object : Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val sortedList = this@sortedWith.toMutableList()\n

sortedList.sortWith(comparator)\n   return sortedList.iterator()\n   }\n   }\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associate\n */\npublic inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n   return associateTo(LinkedHashMap<K, V>(), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given sequence indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateBy\n */\npublic inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n   return associateByTo(LinkedHashMap<K, T>(), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given sequence.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateByWithValueTransform\n */\npublic inline fun <T, K, V> Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n   return associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given sequence\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateByTo\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given sequence.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateByToWithValueTransform\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateTo\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given sequence and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original sequence.\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n   val result = LinkedHashMap<K, V>()\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given sequence,\n * where key is the element

itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\n * The operation is _terminal_.\n */\npublic fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toHashSet(): HashSet<T> {\n   return toCollection(HashSet<T>())\n}\n\n/**\n * Returns a [List] containing all elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toList(): List<T> {\n   return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toMutableList(): MutableList<T> {\n   return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toSet(): Set<T> {\n   return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIterable\")\npublic fun <T, R> Sequence<T>.flatMap(transform: (T) -> Iterable<R>): Sequence<R> {\n   return FlatteningSequence(this, transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic fun <T, R> Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {\n   return FlatteningSequence(this, transform, Sequence<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\npublic fun <T, R> Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): Sequence<R> {\n   return flatMapIndexed(this, transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequence\")\npublic fun <T, R> Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): Sequence<R> {\n   return flatMapIndexed(this, transform, Sequence<R>::iterator)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npubli

c inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(checkIndexOverflow(index++), element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedSequenceTo\")\n@kotlin.internal.InlineOnly\npublic

inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform: (index: Int, T) -> Sequence<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(checkIndexOverflow(index++), element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIterableTo\")\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from

results of [transform] function being invoked on each element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n   return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding

elements.\n * \n * @return The [destination] map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<T>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in

K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Creates a [Grouping] source from a sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n   return object : Grouping<T, K> {\n   override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n   override fun keyOf(element: T): K = keySelector(element)\n   }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n   return TransformingSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {\n   return TransformingIndexedSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {\n   return TransformingIndexedSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n   forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(checkIndexOverflow(index++), item))\n   return destination\n}\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n */\npublic fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n   return TransformingSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element in the original sequence\n * and appends only the non-null results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n   forEach { element -> transform(element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original sequence\n * and appends the results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {\n   for (item in this)\n

destination.add(transform(item))\n

   return destination\n}\n\n/**\n * Returns a sequence that wraps each element of the original sequence\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n   return IndexingSequence(this)\n}\n\n/**\n * Returns a sequence containing only distinct elements from the given sequence.\n * \n * Among equal elements of the given sequence, only the first one will be present in the resulting sequence.\n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T> Sequence<T>.distinct(): Sequence<T> {\n   return this.distinctBy { it }\n}\n\n/**\n * Returns a sequence containing only elements from the given sequence\n * having distinct keys returned by the given [selector] function.\n * \n * Among elements of the given sequence with equal keys, only the first one will be present in the resulting sequence.\n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n */\npublic fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n   return DistinctSequence(this, selector)\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given sequence.\n * \n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {\n   val set = LinkedHashSet<T>()\n   for (item in this) set.add(item)\n   return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if sequence has at least one element.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Sequence<T>.any(): Boolean {\n   return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Sequence<T>.any(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the number of elements in this sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.count(): Int {\n   var count = 0\n   for (element in this) checkCountOverflow(++count)\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.count(predicate: (T) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) checkCountOverflow(++count)\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n * Returns the specified [initial] value if the sequence is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n   return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEach(action: (T) -> Unit): Unit {\n   for

(element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Double>.max(): Double? {\n   return maxOrNull()\n}\n\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Float>.max(): Float? {\n   return maxOrNull()\n}\n\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T : Comparable<T>> Sequence<T>.max(): T? {\n   return maxOrNull()\n}\n\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T? {\n   return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var maxElem = iterator.next()\n   if (!iterator.hasNext()) return maxElem\n   var maxValue = selector(maxElem)\n   do {\n   val e = iterator.next()\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   } while (iterator.hasNext())\n   return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) -> Double): Double {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) -> Float): Float {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxOf(selector: (T) -> R): R {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return

maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n

 * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * The operation is _terminal_.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfOrNull(selector: (T) -> Double): Double? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

 inline fun <T> Sequence<T>.maxOfOrNull(selector: (T) -> Float): Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxOfOrNull(selector: (T) -> R): R? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var maxValue = selector(iterator.next())\n

    while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Sequence<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Sequence<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var maxValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`

 returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun Sequence<Double>.maxOrNull(): Double? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   max = maxOf(max, e)\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun Sequence<Float>.maxOrNull(): Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   max = maxOf(max, e)\n

\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Sequence<T>.maxOrNull(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (max < e) max = e\n   }\n   return max\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {\n   return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Sequence<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Double>.min(): Double? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Float>.min(): Float? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T : Comparable<T>> Sequence<T>.min(): T? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? {\n   return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minByOrNull(selector: (T) -> R): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var minElem = iterator.next()\n   if (!iterator.hasNext()) return minElem\n   var minValue = selector(minElem)\n   do {\n   val e = iterator.next()\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   } while (iterator.hasNext())\n   return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the sequence.\n *\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOf(selector: (T) -> Double): Double {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the sequence.\n *\n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOf(selector: (T) -> Float): Float {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n

minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the sequence.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minOf(selector: (T) -> R): R {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOfOrNull(selector: (T) -> Double): Double? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOfOrNull(selector: (T) -> Float): Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minOfOrNull(selector: (T) -> R): R? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence.\n * \n * @throws NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Sequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n   val iterator = iterator()\n   if (!iterator.hasNext()) throw NoSuchElementException()\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Sequence<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var minValue = selector(iterator.next())\n   while (iterator.hasNext()) {\n   val v = selector(iterator.next())\n   if (comparator.compare(minValue, v) > 0) {\n

minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun Sequence<Double>.minOrNull(): Double? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var min = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   min = minOf(min, e)\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun Sequence<Float>.minOrNull(): Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var min = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   min = minOf(min, e)\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T : Comparable<T>> Sequence<T>.minOrNull(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var min = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (min > e) min = e\n   }\n   return min\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n   return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var min = iterator.next()\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Sequence<T>.none(): Boolean {\n   return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns a sequence which performs the given [action] on each element of the original sequence as they pass through it.\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T> {\n   return map {\n   action(it)\n   it\n   }\n}\n\n/**\n * Returns a sequence which performs the given [action] on each element of the original sequence as they pass through it.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@SinceKotlin(\"1.4\")\npublic fun <T> Sequence<T>.onEachIndexed(action: (index: Int, T) -> Unit): Sequence<T> {\n   return mapIndexed { index, element ->\n   action(index, element)\n   element\n   }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this sequence is empty. If the sequence can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun <S, T : S> Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n   val iterator = this.iterator()\n   if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty sequence can't be reduced.\")\n   var accumulator: S = iterator.next()\n   while (iterator.hasNext()) {\n   accumulator = operation(accumulator, iterator.next())\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n * Throws an exception if this sequence is empty. If the sequence can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *

@param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *\npublic inline fun <S, T : S> Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n   val iterator = this.iterator()\n   if (!iterator.hasNext())

 throw UnsupportedOperationException(\"Empty sequence can't be reduced.\")\n   var index = 1\n   var accumulator: S = iterator.next()\n   while (iterator.hasNext()) {\n   accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n * Returns `null` if the sequence is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n *\n@SinceKotlin(\"1.4\")\npublic inline fun <S, T : S> Sequence<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n   val iterator = this.iterator()\n

   if (!iterator.hasNext()) return null\n   var index = 1\n   var accumulator: S = iterator.next()\n   while (iterator.hasNext()) {\n   accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n

*\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S> Sequence<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n   val iterator = this.iterator()\n   if (!iterator.hasNext()) return null\n   var accumulator: S = iterator.next()\n

   while (iterator.hasNext()) {\n   accumulator = operation(accumulator, iterator.next())\n   }\n   return accumulator\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n *\n@SinceKotlin(\"1.4\")\npublic fun <T, R> Sequence<T>.runningFold(initial:

 R, operation: (acc: R, T) -> R): Sequence<R> {\n   return sequence {\n   yield(initial)\n   var accumulator = initial\n   for (element in this@runningFold) {\n   accumulator = operation(accumulator, element)\n   yield(accumulator)\n   }\n   }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates

 the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n *\n@SinceKotlin(\"1.4\")\npublic fun <T, R> Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n   return sequence {\n   yield(initial)\n   var index = 0\n   var accumulator = initial\n   for (element in this@runningFoldIndexed) {\n   accumulator = operation(checkIndexOverflow(index++), accumulator,

element)\n   yield(accumulator)\n   }\n   }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n

 * @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <S, T : S> Sequence<T>.runningReduce(operation: (acc: S, T) -> S): Sequence<S> {\n   return sequence {\n   val iterator = iterator()\n   if (iterator.hasNext()) {\n   var accumulator: S = iterator.next()\n   yield(accumulator)\n   while (iterator.hasNext()) {\n   accumulator = operation(accumulator, iterator.next())\n   yield(accumulator)\n   }\n   }\n   }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and current accumulator value that

 starts with the first element of this sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\npublic fun <S, T : S> Sequence<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {\n   return sequence {\n   val iterator = iterator()\n   if (iterator.hasNext()) {\n   var accumulator: S = iterator.next()\n   yield(accumulator)\n   var index = 1\n   while (iterator.hasNext()) {\n   accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n

            yield(accumulator)\n   }\n   }\n   }\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T, R> Sequence<T>.scan(initial: R, operation: (acc: R, T) ->

 R): Sequence<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a sequence containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * The [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function later because of sequence's lazy nature.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic

 fun <T, R> Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n * \n * The operation is _terminal_.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline

fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T : Any> Sequence<T?>.requireNoNulls(): Sequence<T> {\n   return map { it ?: throw IllegalArgumentException(\"null element found in $this.\") }\n}\n\n/**\n * Splits this sequence into a sequence of lists each not exceeding the given [size].\n *\n * The last list in the resulting sequence may have fewer elements than the given [size].\n *\n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n *\n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {\n   return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this sequence into several lists each not exceeding the given [size]\n *

and applies the given [transform] function to an each.\n * \n * @return sequence of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have fewer elements than the given [size].\n * \n * @param size the number of elements to

take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {\n   return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n

 *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {\n   return object: Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   var removed = false\n   return this@minus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] array.\n * \n * Note that the source sequence and the array being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * Before Kotlin 1.6, the [elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between

 successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {\n   if (elements.isEmpty()) return this\n   return object: Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val other = elements.convertToSetForSetOperation()\n   return this@minus.filterNot { it in other }.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] collection.\n * \n * Note that the source sequence and the collection being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * Before Kotlin 1.6, the

 [elements] collection may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {\n   return object: Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val other = elements.convertToSetForSetOperation()\n   if (other.isEmpty())\n   return this@minus.iterator()\n   else\n   return this@minus.filterNot { it in other }.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] sequence.\n * \n

 * Note that the source sequence and the sequence being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * The operation is _intermediate_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence.\n * \n * Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {\n   return object: Sequence<T> {\n   override fun iterator(): Iterator<T> {\n   val other = elements.convertToSetForSetOperation()\n   if (other.isEmpty())\n   return this@minus.iterator()\n   else\n   return this@minus.filterNot { it in other }.iterator()\n   }\n   }\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {\n   return minus(element)\n}\n\n/**\n * Splits the original sequence into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for

which [predicate] yielded `false`.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Sequences.Transformations.partition\n */\npublic inline fun <T> Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n   val first = ArrayList<T>()\n   val second = ArrayList<T>()\n

   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {\n   return sequenceOf(this, sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] array.\n * \n * Note that the source sequence and the array being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T>

 {\n   return this.plus(elements.asList())\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection.\n * \n * Note that the source sequence and the collection being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {\n   return sequenceOf(this, elements.asSequence()).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n

 * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {\n   return sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {\n   return plus(element)\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this sequence with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default

 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {\n   return windowedSequence(size, step, partialWindows, reuseBuffer = false)\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this sequence with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have fewer elements than the given [size].\n * \n * Both [size] and [step]

 must be positive and can be greater than the number of elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):

Sequence<R> {\n   return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Sequences.Transformations.zip\n */\npublic infix fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {\n   return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Sequences.Transformations.zipWithTransform\n */\npublic fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n   return MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n   return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n   return sequence result@ {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return@result\n   var current = iterator.next()\n   while (iterator.hasNext()) {\n   val next = iterator.next()\n   yield(transform(current, next))\n   current = next\n   }\n   }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Sequence<T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   buffer.appendElement(element, transform)\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Sequence<T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original sequence returning its elements when being iterated.\n */\npublic fun <T> Sequence<T>.asIterable(): Iterable<T> {\n   return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as a [Sequence].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T> {\n   return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Sequence<Byte>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum /

count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Sequence<Short>.average():
 Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Sequence<Int>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Sequence<Long>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Sequence<Float>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Sequence<Double>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Sequence<Byte>.sum(): Int
 {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Sequence<Short>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Sequence<Int>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Sequence<Long>.sum(): Long {\n   var sum: Long = 0L\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Sequence<Float>.sum(): Float {\n   var sum: Float = 0.0f\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Sequence<Double>.sum(): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SetsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport
 kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(size))\n   var removed = false\n   return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] array.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * Before Kotlin 1.6, the [elements] array may have been converted to a

[HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n

 * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {\n   val result = LinkedHashSet<T>(this)\n result.removeAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Set<T>.minus(elements: Iterable<T>):

 Set<T> {\n   val other = elements.convertToSetForSetOperationWith(this)\n   if (other.isEmpty())\n   return this.toSet()\n   if (other is Set)\n   return this.filterNotTo(LinkedHashSet<T>()) { it in other }\n   val result = LinkedHashSet<T>(this)\n   result.removeAll(other)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] sequence.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have\n * a correct and stable implementation of `hashCode()` that didn't change between successive invocations.\n * On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.\n */\npublic operator fun <T> Set<T>.minus(elements: Sequence<T>):

 Set<T> {\n   val result = LinkedHashSet<T>(this)\n   result.removeAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.minusElement(element: T): Set<T> {\n   return minus(element)\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(element: T): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(size + 1))\n   result.addAll(this)\n result.add(element)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] array,\n * which aren't already in this set.\n * \n * The returned set preserves

 the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))\n   result.addAll(this)\n result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] collection,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size * 2))\n   result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] sequence,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n

 */\npublic operator fun <T> Set<T>.plus(elements: Sequence<T>): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(this.size * 2))\n   result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.plusElement(element: T): Set<T> {\n   return plus(element)\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

 */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage

kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharSequence.elementAt(index: Int): Char\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrNull(index: Int): Char? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if no such character was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n * \n * @sample samples.collections.Collections.Elements.find\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.findLast(predicate: (Char) -> Boolean): Char? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n */\npublic fun CharSequence.first(): Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Char sequence is empty.\")\n   return this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to characters of this char sequence in iteration order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any> CharSequence.firstNotNullOf(transform: (Char) -> R?): R {\n   return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException(\"No element of the char sequence was transformed to a non-null value.\")\n}\n\n/**\n * Returns the first non-null value produced by [transform] function being applied to characters of this char sequence in iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample samples.collections.Collections.Transformations.firstNotNullOf\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun <R : Any> CharSequence.firstNotNullOfOrNull(transform: (Char) -> R?): R? {\n   for (element in this) {\n   val result = transform(element)\n   if (result != null) {\n   return result\n   }\n   }\n   return null\n}\n\n/**\n * Returns the first character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.firstOrNull(): Char? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if character was not found.\n */\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -> Boolean): Char? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n */\npublic fun CharSequence.getOrNull(index: Int): Char? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns index of the first

character matching the given [predicate], or -1 if the char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {\n
    for (index in indices) {\n   if (predicate(this[index])) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n
    for (index in indices.reversed()) {\n   if (predicate(this[index])) {\n   return index\n   }\n   }\n   return -1\n}\n\n/**\n * Returns the last character.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n * \n * @sample samples.text.Strings.last\n */\npublic fun CharSequence.last(): Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Char sequence is empty.\")\n   return this[lastIndex]\n}\n\n/**\n * Returns the last character matching the given [predicate].\n * \n * @throws NoSuchElementException if no such character is found.\n * \n * @sample samples.text.Strings.last\n */\npublic inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is empty.\n * \n * @sample samples.text.Strings.last\n */\npublic fun CharSequence.lastOrNull(): Char? {\n   return if (isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n * \n * @sample samples.text.Strings.last\n */\npublic inline fun CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns a random character from this char sequence.\n
 * \n * @throws NoSuchElementException if this char sequence is empty.\n
 */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char {\n   return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharSequence.random(random: Random): Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Char sequence is empty.\")\n   return get(random.nextInt(length))\n}\n\n/**\n * Returns a random character from this char sequence, or `null` if this char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.randomOrNull(): Char? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified source of\n randomness, or `null` if this char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun CharSequence.randomOrNull(random: Random): Char? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.single(): Char {\n   return when (length) {\n   0 -> throw NoSuchElementException(\"Char sequence is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Char sequence has more than one element.\")\n   }\n}\n\n/**\n * Returns the single character matching the given [predicate], or throws exception if there is no or more than one matching character.\n */\npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n   var single: Char? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element))
 {\n   if (found) throw IllegalArgumentException(\"Char sequence contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.singleOrNull(): Char? {\n   return if (length == 1) this[0] else null\n}\n\n/**\n * Returns the single character matching the given [predicate], or `null` if character was not found or more than one character was found.\n */\npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n   var single: Char? = null\n   var found =

false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.drop(n: Int): CharSequence {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun String.drop(n: Int): String {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.dropLast(n: Int): CharSequence {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a string with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun String.dropLast(n: Int): String {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {\n   for (index in lastIndex downTo 0)\n   if (!predicate(this[index]))\n   return subSequence(0, index + 1)\n   return \"\"\n}\n\n/**\n * Returns a string containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropLastWhile(predicate: (Char) -> Boolean): String {\n   for (index in lastIndex downTo 0)\n   if (!predicate(this[index]))\n   return substring(0, index + 1)\n   return \"\"\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {\n   for (index in this.indices)\n   if (!predicate(this[index]))\n   return subSequence(index, length)\n   return \"\"\n}\n\n/**\n * Returns a string containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropWhile(predicate: (Char) -> Boolean): String {\n   for (index in this.indices)\n   if (!predicate(this[index]))\n   return substring(index)\n   return \"\"\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n * \n * @sample samples.text.Strings.filter\n */\npublic inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {\n   return filterTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the given [predicate].\n * \n * @sample samples.text.Strings.filter\n */\npublic inline fun String.filter(predicate: (Char) -> Boolean): String {\n   return filterTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {\n   return filterIndexedTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {\n   return filterIndexedTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the

index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.append(element)\n   }\n   return destination\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n */\npublic inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {\n   return filterNotTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that do not match the given [predicate].\n * \n * @sample samples.text.Strings.filterNot\n */\npublic inline fun String.filterNot(predicate: (Char) -> Boolean): String {\n   return filterNotTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.append(element)\n   return destination\n}\n\n/**\n * Appends all characters matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : Appendable> CharSequence.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n   for (index in 0 until length) {\n   val element = get(index)\n   if (predicate(element)) destination.append(element)\n   }\n   return destination\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at the specified range of [indices].\n */\npublic fun CharSequence.slice(indices: IntRange): CharSequence {\n   if (indices.isEmpty()) return \"\"\n   return subSequence(indices)\n}\n\n/**\n * Returns a string containing characters of the original string at the specified range of [indices].\n */\npublic fun String.slice(indices: IntRange): String {\n   if (indices.isEmpty()) return \"\"\n   return substring(indices)\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at specified [indices].\n */\npublic fun CharSequence.slice(indices: Iterable<Int>): CharSequence {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return \"\"\n   val result = StringBuilder(size)\n   for (i in indices) {\n   result.append(get(i))\n   }\n   return result\n}\n\n/**\n * Returns a string containing characters of the original string at specified [indices].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.slice(indices: Iterable<Int>): String {\n   return (this as CharSequence).slice(indices).toString()\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun CharSequence.take(n: Int): CharSequence {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a string containing the first [n] characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.take(n: Int): String {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   return substring(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing the last [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun CharSequence.takeLast(n: Int): CharSequence {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   val length = length\n   return subSequence(length - n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.takeLast(n: Int): String {\n   require(n >= 0) { \"Requested character count $n is less than zero.\" }\n   val length = length\n   return substring(length - n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence

of this char sequence containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n *\npublic inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return subSequence(index + 1, length)\n   }\n   }\n   return subSequence(0, length)\n}\n\n/**\n * Returns a string containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n *\npublic inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return substring(index + 1)\n   }\n   }\n   return this\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n *\npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {\n   for (index in 0 until length)\n   if (!predicate(get(index))) {\n   return subSequence(0, index)\n   }\n   return subSequence(0, length)\n}\n\n/**\n * Returns a string containing the first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n *\npublic inline fun String.takeWhile(predicate: (Char) -> Boolean): String {\n   for (index in 0 until length)\n   if (!predicate(get(index))) {\n   return substring(0, index)\n   }\n   return this\n}\n\n/**\n * Returns a char sequence with characters in reversed order.\n *\npublic fun CharSequence.reversed(): CharSequence {\n   return StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string with characters in reversed order.\n *\n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {\n   return (this as CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to characters of the given char sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associate\n *\npublic inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(length).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the characters from the given char sequence indexed by the key\n * returned from [keySelector] function applied to each character.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateBy\n *\npublic inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n   val capacity = mapCapacity(length).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateByWithValueTransform\n *\npublic inline fun <K, V> CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n   val capacity = mapCapacity(length).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each character of the given char sequence\n * and value is the character itself.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateByTo\n *\npublic inline fun <K, M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n   for (element in this) {\n   destination.put(keySelector(element), element)\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to characters of the given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateByToWithValueTransform\n

*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n   for (element in this) {\n   destination.put(keySelector(element), valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each character of the given char sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * @sample samples.text.Strings.associateTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n   for (element in this) {\n   destination += transform(element)\n   }\n   return destination\n}\n\n/**\n * Returns a [Map] where keys are characters from the given char sequence and values are\n * produced by the [valueSelector] function applied to each character.\n * \n * If any two characters are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n   val result = LinkedHashMap<Char, V>(mapCapacity(length.coerceAtMost(128)).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each character of the given char sequence,\n * where key is the character itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.text.Strings.associateWithTo\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <V, M : MutableMap<in Char, in V>> CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Appends all characters to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {\n   for (item in this) {\n   destination.add(item)\n   }\n   return destination\n}\n\n/**\n * Returns a new [HashSet] of all characters.\n */\npublic fun CharSequence.toHashSet(): HashSet<Char> {\n   return toCollection(HashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all characters.\n */\npublic fun CharSequence.toList(): List<Char> {\n   return when (length) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a new [MutableList] filled with all characters of this char sequence.\n */\npublic fun CharSequence.toMutableList(): MutableList<Char> {\n   return toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all characters.\n * \n * The returned set preserves the element iteration order of the original char sequence.\n */\npublic fun CharSequence.toSet(): Set<Char> {\n   return when (length) {\n   0 -> emptySet()\n   1 -> setOf(this[0])\n   else -> toCollection(LinkedHashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n   }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each character of original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each character\n * and its index in the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterable\")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each character\n * and its index in the original char sequence, to the given [destination].\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.jvm.JvmName(\"flatMapIndexedIterableTo\")\n@kotlin.internal.InlineOnly\npubli

c inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index: Int, Char) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each character of original char sequence, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each character and returns a map where each group key is associated with a list of corresponding characters.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<Char>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Creates a [Grouping] source from a char sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each character.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {\n   return object : Grouping<Char, K> {\n   override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()\n   override fun keyOf(element: Char): K = keySelector(element)\n   }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n * @sample samples.text.Strings.map\n */\npublic inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {\n   return mapTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list

containing only the non-null results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {\n   return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {\n   forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n   var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.mapNotNull\n */\npublic inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n   return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character in the original char sequence\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {\n   forEach { element -> transform(element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each character of the original char sequence\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each character of the original char sequence\n * into an [IndexedValue] containing the index of that character and the character itself.\n */\npublic fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all characters match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if char sequence has at least one character.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharSequence.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the length of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.count(): Int {\n   return length\n}\n\n/**\n * Returns the number of characters matching the given [predicate].\n */\npublic inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation]

from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character and current accumulator value.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes a character and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, the character itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Performs the given [action] on each character.\n */\npublic inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each character, providing sequential index with the character.\n * @param [action] function that takes the index of a character and the character itself\n * and performs the action on the character.\n */\npublic inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(index++, item)\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharSequence.max(): Char? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) -> R): Char? {\n   return maxByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the largest value of the given function or `null` if there are no characters.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R : Comparable<R>> CharSequence.maxByOrNull(selector: (Char) -> R): Char? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun CharSequence.maxOf(selector: (Char) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.maxOf(selector: (Char) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector: (Char) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there

are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector: (Char) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> CharSequence.maxOfOrNull(selector: (Char) -> R): R? {\n   if

(isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.maxOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each character in the char sequence or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest character or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharSequence.maxOrNull(): Char? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex)

{\n   val
 e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\",
ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\npublic fun CharSequence.maxWith(comparator: Comparator<in Char>): Char?
{\n   return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first character having the largest value
according to the provided [comparator] or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\npublic fun
CharSequence.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n   if (isEmpty()) return null\n   var
max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n
}\n   return max\n}\n\n@Deprecated(\"Use minOrNull instead.\",
ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun CharSequence.min():
 Char? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minByOrNull instead.\",
ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince = \"1.6\")\npublic inline fun <R : Comparable<R>> CharSequence.minBy(selector: (Char) ->
R): Char? {\n   return minByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the smallest value of
the given function or `null` if there are no characters.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R :
Comparable<R>> CharSequence.minByOrNull(selector: (Char) -> R): Char? {\n   if (isEmpty()) return null\n   var
minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue =
selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v)
{\n   minElem = e\n
        minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If any of values produced
by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char
sequence is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->
Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for
(i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * If any of values produced
 by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the char
sequence is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->
Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in
1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
 CharSequence.minOf(selector: (Char) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var
minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n
    minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no
characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector:

(Char) -> Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n *\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector: (Char) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no characters.\n *\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic

inline fun <R : Comparable<R>> CharSequence.minOfOrNull(selector: (Char) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value\n * according to the provided [comparator]\n * among all values produced by [selector] function applied to each\n * character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n *\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.minOfWith(comparator: Comparator<in R>, selector: (Char) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided\n * [comparator]\n * among all values produced by [selector] function applied to each character in the char sequence or\n * `null` if there are no characters.\n *\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>

CharSequence.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest character or `null` if there are no characters.\n *\n */\n@SinceKotlin(\"1.4\")\npublic fun CharSequence.minOrNull(): Char? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\npublic fun CharSequence.minWith(comparator: Comparator<in Char>): Char? {\n   return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first character having the smallest value according to the provided [comparator] or `null` if there are no characters.\n */\n@SinceKotlin(\"1.4\")\npublic fun CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns `true` if the char sequence has no characters.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun CharSequence.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if no characters match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharSequence.none(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Performs the given [action] on each character and returns the char sequence itself

afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <S : CharSequence> S.onEach(action: (Char) -> Unit): S {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each character, providing sequential index with the character,\n * and returns the char sequence itself afterwards.\n * @param [action] function that takes the index of

 a character and the character itself\n * and performs the action on the character.\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <S : CharSequence> S.onEachIndexed(action: (index: Int, Char) -> Unit): S {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and a character,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty char sequence can't

 be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of a character, current accumulator value and the character itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\npublic inline fun CharSequence.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty

 char sequence can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, current accumulator value and the character itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index,

 accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes current accumulator value and a character,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n

 */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to left\n * to each character and current accumulator

 value.\n * \n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes a character and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index

< 0) throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Throws an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\npublic inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharSequence.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to left\n * to each character and current accumulator value.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes a character and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R> CharSequence.runningFold(initial: R, operation: (acc: R, Char) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(length + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\npublic inline fun <R> CharSequence.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(length + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n *

Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character and current accumulator value that starts with the first character of this char sequence.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise

 it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharSequence.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Char>(length).apply { add(accumulator) }\n   for (index in 1 until length) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator value that starts with the first character of this char sequence.\n * \n * Note that `acc` value passed

 to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\npublic inline fun CharSequence.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<Char>(length).apply { add(accumulator) }\n   for (index in 1 until length) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character and current accumulator value that starts with

 [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and a character, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R> CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each character, its index in the original char sequence and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *

 @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <R> CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun CharSequence.sumBy(selector: (Char) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character

 in the char sequence.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by

[selector] function applied to each character in the char sequence.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in
this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@kotlin.internal.InlineOnly\npublic
 inline fun CharSequence.sumOf(selector: (Char) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this)
{\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n
    sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char
sequence.\n
*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> ULong):
ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n
return
 sum\n}\n\n/**\n * Splits this char sequence into a list of strings each not exceeding the given [size].\n * \n * The
last string in the resulting list may have fewer characters than the given [size].\n * \n * @param size the number of
elements to take in each string, must be positive and can be greater than the number of elements in this char
sequence.\n * \n * @sample samples.text.Strings.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun
CharSequence.chunked(size: Int): List<String> {\n   return windowed(size, size, partialWindows =
true)\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and
applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an
each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid
only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a
 snapshot of it.\n * The last char sequence may have fewer characters than the given [size].\n * \n * @param size the
number of elements to take in each char sequence, must be positive and can be greater than the number of elements
in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransform\n
*/\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R):
List<R> {\n   return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits this
char sequence into a sequence of strings each not exceeding the given [size].\n * \n * The last string in the resulting
sequence may have fewer characters than the given [size].\n * \n * @param size the number of elements to take in
each string, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample
samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun
CharSequence.chunkedSequence(size:
 Int): Sequence<String> {\n   return chunkedSequence(size) { it.toString() }\n}\n\n/**\n * Splits this char sequence
into several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an

each.\n * \n * @return sequence of results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have fewer characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransformToSequence\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {\n
    return windowedSequence(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits the original char sequence into pair of char sequences,\n * where *first* char sequence contains characters for which [predicate] yielded `true`,\n * while *second* char sequence contains characters for which [predicate] yielded `false`.\n * \n * @sample samples.text.Strings.partition\n */\npublic inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {\n   val first = StringBuilder()\n   val second = StringBuilder()\n   for (element in this) {\n   if (predicate(element)) {\n   first.append(element)\n   } else {\n   second.append(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Splits the original string into pair of strings,\n * where *first* string contains characters for which [predicate] yielded `true`,\n * while *second* string contains characters for which [predicate] yielded

 `false`.\n * \n * @sample samples.text.Strings.partition\n */\npublic inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n   val first = StringBuilder()\n   val second = StringBuilder()\n   for (element in this) {\n   if (predicate(element)) {\n   first.append(element)\n   } else {\n   second.append(element)\n   }\n   }\n   return Pair(first.toString(), second.toString())\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have fewer characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows

 controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n   return windowed(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have fewer characters than the given [size].\n * \n * Both [size] and [step] must be positive and

 can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): List<R> {\n   checkWindowSizeStep(size, step)\n   val thisSize = this.length\n   val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n   val result = ArrayList<R>(resultCapacity)\n   var index = 0\n   while (index in 0 until thisSize) {\n   val end = index + size\n   val coercedEnd = if (end < 0 || end > thisSize) { if (partialWindows)

 thisSize else break } else end\n   result.add(transform(subSequence(index, coercedEnd)))\n   index += step\n   }\n   return result\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have fewer characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the

number of elements in this char sequence.\n * @param size the number of elements to take in each window\n *
@param step the number of elements to move the window forward by on an each step, by default 1\n * @param
partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which
means partial windows won't be preserved\n * \n * @sample
samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun
CharSequence.windowedSequence(size: Int,
 step: Int = 1, partialWindows: Boolean = false): Sequence<String> {\n   return windowedSequence(size, step,
partialWindows) { it.toString() }\n}\n\n/**\n * Returns a sequence of results of applying the given [transform]
function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this
char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is
ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way,
unless you made a snapshot of it.\n * Several last char sequences may have fewer characters than the given [size].\n
* \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n
* @param size the number of elements to take in each window\n * @param step the number of elements to move
the window forward by on an each step, by default 1\n * @param partialWindows controls whether
 or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be
preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n
*/\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1,
partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {\n
checkWindowSizeStep(size, step)\n   val windows = (if (partialWindows) indices else 0 until length - size + 1) step
step\n   return windows.asSequence().map { index ->\n   val end = index + size\n   val coercedEnd = if (end <
0 || end > length) length else end\n   transform(subSequence(index, coercedEnd))\n   }\n}\n\n/**\n * Returns a
list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The returned
list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zip\n */\npublic infix fun
CharSequence.zip(other: CharSequence):
 List<Pair<Char, Char>> {\n   return zip(other) { c1, c2 -> c1 to c2 }\n}\n\n/**\n * Returns a list of values built
from the characters of `this` and the [other] char sequences with the same index\n * using the provided [transform]
function applied to each pair of characters.\n * The returned list has length of the shortest char sequence.\n * \n *
@sample samples.text.Strings.zipWithTransform\n */\npublic inline fun <V> CharSequence.zip(other:
CharSequence, transform: (a: Char, b: Char) -> V): List<V> {\n   val length = minOf(this.length, other.length)\n
val list = ArrayList<V>(length)\n   for (i in 0 until length) {\n   list.add(transform(this[i], other[i]))\n   }\n
return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent characters in this char sequence.\n * \n * The
returned list is empty if this char sequence contains less than two characters.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic
 fun CharSequence.zipWithNext(): List<Pair<Char, Char>> {\n   return zipWithNext { a, b -> a to b }\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent
characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two
characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n
*/\n@SinceKotlin(\"1.2\")\npublic inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R):
List<R> {\n   val size = length - 1\n   if (size < 1) return emptyList()\n   val result = ArrayList<R>(size)\n   for
(index in 0 until size) {\n   result.add(transform(this[index], this[index + 1]))\n   }\n   return result\n}\n\n/**\n *
Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n
*/\npublic fun CharSequence.asIterable(): Iterable<Char> {\n
 if (this is String && isEmpty()) return emptyList()\n   return Iterable { this.iterator() }\n}\n\n/**\n * Creates a
[Sequence] instance that wraps the original char sequence returning its characters when being iterated.\n */\npublic
fun CharSequence.asSequence(): Sequence<Char> {\n   if (this is String && isEmpty()) return emptySequence()\n
return Sequence { this.iterator() }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage
kotlin.text\n\nimport kotlin.contracts.contract\nimport kotlin.jvm.JvmName\n\n/**\n * Returns a copy of this string
converted to upper case using the rules of the default locale.\n */\n@Deprecated(\"Use uppercase() instead.\",
ReplaceWith(\"uppercase()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic
 expect fun String.toUpperCase(): String\n\n/**\n * Returns a copy of this string converted to upper case using
Unicode mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one
character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n
*\n * @sample samples.text.Strings.uppercase\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
String.uppercase(): String\n\n/**\n * Returns a copy of this string converted to lower case using the rules of the
default locale.\n */\n@Deprecated(\"Use lowercase() instead.\",
ReplaceWith(\"lowercase()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic expect fun
String.toLowerCase(): String\n\n/**\n * Returns a copy of this string converted to lower case using Unicode
mapping rules of the invariant locale.\n *\n * This function supports one-to-many and many-to-one character
mapping,\n * thus the
 length of the returned string can be different from the length of the original string.\n *\n * @sample
samples.text.Strings.lowercase\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
String.lowercase(): String\n\n/**\n * Returns a copy of this string having its first letter titlecased using the rules of
the default locale,\n * or the original string if it's empty or already starts with a title case letter.\n *\n * The title case
of a character is usually the same as its upper case with several exceptions.\n * The particular list of characters with
the special title case form depends on the underlying platform.\n *\n * @sample samples.text.Strings.capitalize\n
*/\n@Deprecated(\"Use replaceFirstChar instead.\", ReplaceWith(\"replaceFirstChar { if (it.isLowerCase())
it.titlecase() else it.toString() }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic expect fun
String.capitalize(): String\n\n/**\n * Returns a copy of this string having
 its first letter lowercased using the rules of the default locale,\n * or the original string if it's empty or already starts
with a lower case letter.\n *\n * @sample samples.text.Strings.decapitalize\n */\n@Deprecated(\"Use
replaceFirstChar instead.\", ReplaceWith(\"replaceFirstChar { it.lowercase()
}\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic expect fun String.decapitalize(): String\n\n/**\n *
Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate]
removed.\n */\npublic inline fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\n   var
startIndex = 0\n   var endIndex = length - 1\n   var startFound = false\n\n   while (startIndex <= endIndex) {\n
val index = if (!startFound) startIndex else endIndex\n   val match = predicate(this[index])\n\n   if
(!startFound) {\n   if (!match)\n   startFound = true\n   else\n   startIndex += 1\n
    } else {\n   if (!match)\n   break\n   else\n   endIndex -= 1\n   }\n   }\n\n   return
subSequence(startIndex, endIndex + 1)\n}\n\n/**\n * Returns a string having leading and trailing characters
matching the [predicate] removed.\n */\npublic inline fun String.trim(predicate: (Char) -> Boolean): String =\n
(this as CharSequence).trim(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having
leading characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trimStart(predicate:
(Char) -> Boolean): CharSequence {\n   for (index in this.indices)\n   if (!predicate(this[index]))\n   return
subSequence(index, length)\n\n   return \"\"\n}\n\n/**\n * Returns a string having leading characters matching the
[predicate] removed.\n */\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\n   (this as
CharSequence).trimStart(predicate).toString()\n\n/**\n
 * Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.\n
*/\npublic inline fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\n   for (index in
this.indices.reversed())\n   if (!predicate(this[index]))\n   return subSequence(0, index + 1)\n\n   return
\"\"\n}\n\n/**\n * Returns a string having trailing characters matching the [predicate] removed.\n */\npublic inline

fun String.trimEnd(predicate: (Char) -> Boolean): String =\n   (this as CharSequence).trimEnd(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing characters from the [chars] array removed.\n */\npublic fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\n\n/**\n * Returns a string having leading and trailing characters from the [chars] array removed.\n */\npublic fun String.trim(vararg chars: Char): String = trim { it in chars }\n\n/**\n * Returns a sub

sequence of this char sequence having leading characters from the [chars] array removed.\n */\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars }\n\n/**\n * Returns a string having leading characters from the [chars] array removed.\n */\npublic fun String.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having trailing characters from the [chars] array removed.\n */\npublic fun CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }\n\n/**\n * Returns a string having trailing characters from the [chars] array removed.\n */\npublic fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.\n */\npublic fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n/**\n * Returns a string having leading and trailing whitespace

removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trim(): String = (this as CharSequence).trim().toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading whitespace removed.\n */\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\n\n/**\n * Returns a string having leading whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this char sequence having trailing whitespace removed.\n */\npublic fun CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace)\n\n/**\n * Returns a string having trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at the beginning\n * to the specified [length] with the specified

character or space.\n *\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padStart\n */\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '): CharSequence {\n   if (length < 0)\n   throw IllegalArgumentException(\"Desired length $length is less than zero.\")\n   if (length <= this.length)\n   return this.subSequence(0, this.length)\n\n   val sb = StringBuilder(length)\n   for (i in 1..(length - this.length))\n   sb.append(padChar)\n   sb.append(this)\n   return sb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n *\n * @param length the desired string

length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length] consisting of `this` string prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padStart\n */\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\n   (this as CharSequence).padStart(length, padChar).toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at the end\n * to the specified [length] with the specified character or space.\n *\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence appended with [padChar] as many times\n * as are necessary to reach that

length.\n * @sample samples.text.Strings.padEnd\n */\npublic fun CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {\n   if (length < 0)\n   throw IllegalArgumentException(\"Desired length $length is less than zero.\")\n   if (length <= this.length)\n   return this.subSequence(0, this.length)\n\n   val sb = StringBuilder(length)\n   sb.append(this)\n   for (i in 1..(length - this.length))\n   sb.append(padChar)\n   return

sb\n}\n\n/**\n * Pads the string to the specified [length] at the end with the specified character or space.\n *\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length] consisting of `this` string appended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padEnd\n */\npublic fun String.padEnd(length:
 Int, padChar: Char = ' '): String =\n   (this as CharSequence).padEnd(length, padChar).toString()\n\n/**\n * Returns `true` if this nullable char sequence is either `null` or empty.\n *\n * @sample
samples.text.Strings.stringIsNullOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence?.isNullOrEmpty(): Boolean {\n   contract {\n   returns(false) implies (this@isNullOrEmpty !=
null)\n   }\n\n   return this == null || this.length == 0\n}\n\n/**\n * Returns `true` if this char sequence is empty (contains no characters).\n *\n * @sample samples.text.Strings.stringIsEmpty\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty(): Boolean = length == 0\n\n/**\n * Returns `true` if this char sequence is not empty.\n *\n * @sample samples.text.Strings.stringIsNotEmpty\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotEmpty(): Boolean = length > 0\n\n//
implemented differently in JVM and JS\n//public fun String.isBlank(): Boolean
 = length() == 0 || all { it.isWhitespace() }\n\n\n/**\n * Returns `true` if this char sequence is not empty and contains some characters except of whitespace characters.\n *\n * @sample samples.text.Strings.stringIsNotBlank\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotBlank(): Boolean = !isBlank()\n\n/**\n * Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.\n
*\n * @sample samples.text.Strings.stringIsNullOrBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence?.isNullOrBlank(): Boolean {\n   contract {\n   returns(false) implies (this@isNullOrBlank !=
null)\n   }\n\n   return this == null || this.isBlank()\n}\n\n/**\n * Iterator for characters of the given char sequence.\n
*/\npublic operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\n   private var index = 0\n\n
  public override fun nextChar(): Char = get(index++)\n\n   public override
 fun hasNext(): Boolean = index < length\n}\n\n/** Returns the string if it is not `null`, or the empty string
otherwise. */\n@kotlin.internal.InlineOnly\npublic inline fun String?.orEmpty(): String = this ?: \"\"\n\n/**\n *
Returns this char sequence if it's not empty\n * or the result of calling [defaultValue] function if the char sequence is empty.\n *\n * @sample samples.text.Strings.stringIfEmpty\n
*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : CharSequence, C : R =\n   if (isEmpty()) defaultValue() else this\n\n/**\n * Returns this char
sequence if it is not empty and doesn't consist solely of whitespace characters,\n * or the result of calling
[defaultValue] function otherwise.\n *\n * @sample samples.text.Strings.stringIfBlank\n
*/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R):
R where C : CharSequence, C : R =\n   if (isBlank()) defaultValue()
 else this\n\n/**\n * Returns the range of valid character indices for this char sequence.\n */\npublic val
CharSequence.indices: IntRange\n   get() = 0..length - 1\n\n/**\n * Returns the index of the last character in the
char sequence or -1 if it is empty.\n */\npublic val CharSequence.lastIndex: Int\n   get() = this.length - 1\n\n/**\n *
Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].\n */\npublic fun
CharSequence.hasSurrogatePairAt(index: Int): Boolean {\n   return index in 0..length - 2\n   &&
this[index].isHighSurrogate()\n   && this[index + 1].isLowSurrogate()\n}\n\n/**\n * Returns a substring
specified by the given [range] of indices.\n */\npublic fun String.substring(range: IntRange): String =
substring(range.start, range.endInclusive + 1)\n\n/**\n * Returns a subsequence of this char sequence specified by
the given [range] of indices.\n */\npublic fun CharSequence.subSequence(range: IntRange): CharSequence
 = subSequence(range.start, range.endInclusive + 1)\n\n/**\n * Returns a subsequence of this char sequence.\n *\n *
This extension is chosen only for invocation with old-named parameters.\n * Replace parameter names with the
same as those of [CharSequence.subSequence].\n
*/\n@kotlin.internal.InlineOnly\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false
warning\n@Deprecated(\"Use parameters named startIndex and endIndex.\", ReplaceWith(\"subSequence(startIndex

= start, endIndex = end)\"))\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence = subSequence(start, end)\n\n/**\n * Returns a substring of chars from a range of this char sequence starting at the [startIndex] and ending right before the [endIndex].\n *\n * @param startIndex the start index (inclusive).\n * @param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).toString()\n\n/**\n * Returns a substring of chars at indices from the specified [range] of this char sequence.\n */\npublic fun CharSequence.substring(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).toString()\n\n/**\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {\n   val index = indexOf(delimiter)\n   return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBefore(delimiter: String, missingDelimiterValue: String

= this): String {\n   val index = indexOf(delimiter)\n   return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {\n   val index = indexOf(delimiter)\n   return if (index == -1) missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this): String {\n   val index = indexOf(delimiter)\n   return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\n}\n\n/**\n

* Returns a substring before the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {\n   val index = lastIndexOf(delimiter)\n   return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring before the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this): String {\n   val index = lastIndexOf(delimiter)\n   return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue]

which defaults to the original string.\n */\npublic fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {\n   val index = lastIndexOf(delimiter)\n   return if (index == -1) missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\n   val index = lastIndexOf(delimiter)\n   return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\n}\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given range\n * is replaced with the [replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param endIndex the index of the first character

after the replacement to keep in the string.\n */\npublic fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): CharSequence {\n   if (endIndex < startIndex)\n   throw IndexOutOfBoundsException(\"End index ($endIndex) is less than start index ($startIndex).\")\n   val sb = StringBuilder()\n   sb.appendRange(this, 0, startIndex)\n   sb.append(replacement)\n   sb.appendRange(this, endIndex, length)\n   return sb\n}\n\n/**\n * Replaces the part of the string at the given range with the [replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param endIndex the index of the first character after the replacement to keep in the string.\n

*/\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): String =\n   (this as CharSequence).replaceRange(startIndex, endIndex, replacement).toString()\n\n/**\n * Returns a char sequence
with content of this char sequence where its part at the given [range]\n * is replaced with the [replacement] char sequence.\n *\n * The end index of the [range] is included in the part to be replaced.\n */\npublic fun CharSequence.replaceRange(range: IntRange, replacement: CharSequence): CharSequence =\n replaceRange(range.start, range.endInclusive + 1, replacement)\n\n/**\n * Replace the part of string at the given [range] with the [replacement] string.\n *\n * The end index of the [range] is included in the part to be replaced.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(range: IntRange, replacement: CharSequence): String =\n   (this as CharSequence).replaceRange(range, replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given range is removed.\n *\n * @param startIndex the index of the first character to be removed.\n * @param endIndex the index of the first character after the removed
part to keep in the string.\n *\n * [endIndex] is not included in the removed part.\n */\npublic fun CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {\n   if (endIndex < startIndex)\n   throw IndexOutOfBoundsException(\"End index ($endIndex) is less than start index ($startIndex).\")\n\n   if (endIndex == startIndex)\n   return this.subSequence(0, length)\n\n   val sb = StringBuilder(length - (endIndex - startIndex))\n   sb.appendRange(this, 0, startIndex)\n   sb.appendRange(this, endIndex, length)\n   return sb\n}\n\n/**\n * Removes the part of a string at a given range.\n * @param startIndex the index of the first character to be removed.\n * @param endIndex the index of the first character after the removed part to keep in the string.\n *\n * [endIndex] is not included in the removed part.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(startIndex: Int, endIndex: Int): String =\n   (this as CharSequence).removeRange(startIndex, endIndex).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given [range] is removed.\n *\n * The end index of the [range] is included in the removed part.\n */\npublic fun CharSequence.removeRange(range: IntRange): CharSequence = removeRange(range.start, range.endInclusive + 1)\n\n/**\n * Removes the part of a string at the given [range].\n *\n * The end index of the [range] is included in the removed part.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(range: IntRange): String =\n   (this as CharSequence).removeRange(range).toString()\n\n/**\n * If this char sequence starts with the given [prefix], returns a new char sequence\n * with the prefix removed. Otherwise, returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {\n   if (startsWith(prefix)) {\n   return subSequence(prefix.length, length)\n   }\n   return subSequence(0, length)\n}\n\n/**\n * If this string starts with the given [prefix], returns a copy of this string\n * with the prefix removed. Otherwise, returns this string.\n */\npublic fun String.removePrefix(prefix: CharSequence): String {\n   if (startsWith(prefix)) {\n   return substring(prefix.length)\n   }\n   return this\n}\n\n/**\n * If this char sequence ends with the given [suffix], returns a new char sequence\n * with the suffix removed. Otherwise, returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {\n   if (endsWith(suffix)) {\n   return subSequence(0, length - suffix.length)\n   }\n   return subSequence(0, length)\n}\n\n/**\n * If this string ends with the given [suffix], returns a copy of this string\n * with the suffix removed. Otherwise, returns this string.\n */\npublic fun String.removeSuffix(suffix: CharSequence): String {\n   if (endsWith(suffix)) {\n   return
substring(0, length - suffix.length)\n   }\n   return this\n}\n\n/**\n * When this char sequence starts with the given [prefix] and ends with the given [suffix],\n * returns a new char sequence having both the given [prefix] and [suffix] removed.\n * Otherwise returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {\n   if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n   return subSequence(prefix.length, length - suffix.length)\n   }\n   return subSequence(0, length)\n}\n\n/**\n * Removes from a string both the given [prefix] and [suffix] if and only if\n * it starts with the [prefix] and ends with the [suffix].\n * Otherwise returns this string unchanged.\n */\npublic fun String.removeSurrounding(prefix:

CharSequence, suffix: CharSequence): String {\n   if ((length >= prefix.length + suffix.length) &&
startsWith(prefix) &&
 endsWith(suffix)) {\n   return substring(prefix.length, length - suffix.length)\n   }\n   return this\n}\n\n/**\n *
When this char sequence starts with and ends with the given [delimiter],\n * returns a new char sequence having this
[delimiter] removed both from the start and end.\n * Otherwise returns a new char sequence with the same
characters.\n */\npublic fun CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence =
removeSurrounding(delimiter, delimiter)\n\n/**\n * Removes the given [delimiter] string from both the start and the
end of this string\n * if and only if it starts with and ends with the [delimiter].\n * Otherwise returns this string
unchanged.\n */\npublic fun String.removeSurrounding(delimiter: CharSequence): String =
removeSurrounding(delimiter, delimiter)\n\n/**\n * Replace part of string before the first occurrence of given
delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue]
 which defaults to the original string.\n */\npublic fun String.replaceBefore(delimiter: Char, replacement: String,
missingDelimiterValue: String = this): String {\n   val index = indexOf(delimiter)\n   return if (index == -1)
missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string before the first
occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceBefore(delimiter:
String, replacement: String, missingDelimiterValue: String = this): String {\n   val index = indexOf(delimiter)\n
return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part
of string after the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain
the delimiter, returns [missingDelimiterValue] which defaults to the
 original string.\n */\npublic fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue:
String = this): String {\n   val index = indexOf(delimiter)\n   return if (index == -1) missingDelimiterValue else
replaceRange(index + 1, length, replacement)\n}\n\n/**\n * Replace part of string after the first occurrence of given
delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfter(delimiter: String,
replacement: String, missingDelimiterValue: String = this): String {\n   val index = indexOf(delimiter)\n   return if
(index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/**\n *
Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n * If the string does
not contain the delimiter, returns [missingDelimiterValue] which defaults
 to the original string.\n */\npublic fun String.replaceAfterLast(delimiter: String, replacement: String,
missingDelimiterValue: String = this): String {\n   val index = lastIndexOf(delimiter)\n   return if (index == -1)
missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/**\n * Replace part
of string after the last occurrence of given delimiter with the [replacement] string.\n * If the string does not contain
the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun
String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n   val
index = lastIndexOf(delimiter)\n   return if (index == -1) missingDelimiterValue else replaceRange(index + 1,
length, replacement)\n}\n\n/**\n * Replace part of string before the last occurrence of given delimiter with the
[replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue]
 which defaults to the original string.\n */\npublic fun String.replaceBeforeLast(delimiter: Char, replacement: String,
missingDelimiterValue: String = this): String {\n   val index = lastIndexOf(delimiter)\n   return if (index == -1)
missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string before the last
occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns
[missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceBeforeLast(delimiter:
String, replacement: String, missingDelimiterValue: String = this): String {\n   val index = lastIndexOf(delimiter)\n
 return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n\n// public fun
String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun
String.replace(oldValue: String, newValue: String, ignoreCase:

Boolean): String // JVM- and JS-specific\n\n/**\n * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\n * with the given [replacement].\n *\n * The [replacement] can consist of any combination of literal text and $-substitutions. To treat the replacement string\n * literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)\n\n/**\n * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\n * with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a\n * replacement for that match.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String

=\n   regex.replace(this, transform)\n\n/**\n * Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\n *\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for details.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement: String): String = regex.replaceFirst(this, replacement)\n\n/**\n * Returns a copy of this string having its first character replaced with the result of the specified [transform],\n * or the original string if it's empty.\n *\n * @param transform function that takes the first character and returns the result of the transform applied to the character.\n *\n * @sample samples.text.Strings.replaceFirstChar\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName(\"replaceFirstCharWithChar\")\n@kotlin.internal.InlineOnly\npublic

inline fun String.replaceFirstChar(transform: (Char) -> Char): String {\n   return if (isNotEmpty()) transform(this[0]) + substring(1) else this\n}\n\n/**\n * Returns a copy of this string having its first character replaced with the result of the specified [transform],\n * or the original string if it's empty.\n *\n * @param transform function that takes the first character and returns the result of the transform applied to the character.\n *\n * @sample samples.text.Strings.replaceFirstChar\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName(\"replaceFirstCharWithCharSequence\")\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceFirstChar(transform: (Char) -> CharSequence): String {\n   return if (isNotEmpty()) transform(this[0]).toString() + substring(1) else this\n}\n\n\n/**\n

 * Returns `true` if this char sequence matches the given regular expression.\n */\n@kotlin.internal.InlineOnly\npublic inline infix fun CharSequence.matches(regex: Regex): Boolean = regex.matches(this)\n\n/**\n * Implementation of [regionMatches] for CharSequences.\n * Invoked when it's already known that arguments are not Strings, so that no additional type checks are performed.\n */\ninternal fun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {\n   if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) || (otherOffset > other.length - length)) {\n   return false\n   }\n\n   for (index in 0 until length) {\n   if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\n   return false\n   }\n   return true\n}\n\n/**\n * Returns `true` if this char sequence starts with the specified character.\n */\npublic fun CharSequence.startsWith(char:

 Char, ignoreCase: Boolean = false): Boolean =\n   this.length > 0 && this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence ends with the specified character.\n */\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n   this.length > 0 && this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean {\n   if (!ignoreCase && this is String && prefix is String)\n   return this.startsWith(prefix)\n   else\n   return regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this char sequence starting at the

specified offset [startIndex] starts with the specified prefix.\n *\npublic fun CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n

  if (!ignoreCase && this is String && prefix is String)\n   return this.startsWith(prefix, startIndex)\n   else\n   return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n\n/**\n * Returns `true` if this char sequence ends with the specified suffix.\n *\npublic fun CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {\n   if (!ignoreCase && this is String && suffix is String)\n   return this.endsWith(suffix)\n   else\n   return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n\n// common prefix and suffix\n\n/**\n * Returns the longest string `prefix` such that this char sequence and [other] char sequence both start with this prefix,\n * taking care not to split surrogate pairs.\n * If this and [other] have no common prefix, returns the empty string.\n\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @sample samples.text.Strings.commonPrefixWith\n *\npublic fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n   val shortestLength = minOf(this.length, other.length)\n\n   var i = 0\n   while (i < shortestLength && this[i].equals(other[i], ignoreCase = ignoreCase)) {\n   i++\n   }\n   if (this.hasSurrogatePairAt(i - 1) || other.hasSurrogatePairAt(i - 1)) {\n   i--\n   }\n   return subSequence(0, i).toString()\n}\n\n/**\n * Returns the longest string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\n * taking care not to split surrogate pairs.\n * If this and [other] have no common suffix, returns the empty string.\n\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @sample samples.text.Strings.commonSuffixWith\n *\npublic fun CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n   val thisLength = this.length\n

  val otherLength = other.length\n   val shortestLength = minOf(thisLength, otherLength)\n\n   var i = 0\n   while (i < shortestLength && this[thisLength - i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\n   i++\n   }\n   if (this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\n   i--\n   }\n   return subSequence(thisLength - i, thisLength).toString()\n}\n\n\n// indexOfAny()\n\n/**\n * Finds the index of the first occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the first occurrence of matched character from [chars] or -1 if none of [chars] are found.\n *\n *\npublic fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n   if

 (!ignoreCase && chars.size == 1 && this is String) {\n   val char = chars.single()\n   return nativeIndexOf(char, startIndex)\n   }\n\n   for (index in startIndex.coerceAtLeast(0)..lastIndex) {\n   val charAtIndex = get(index)\n   if (chars.any { it.equals(charAtIndex, ignoreCase) })\n   return index\n   }\n   return -1\n}\n\n\n/**\n * Finds the index of the last occurrence of any of the specified [chars] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.\n *\n *\npublic fun CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase:

 Boolean = false): Int {\n   if (!ignoreCase && chars.size == 1 && this is String) {\n   val char = chars.single()\n   return nativeLastIndexOf(char, startIndex)\n   }\n\n\n   for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\n   val charAtIndex = get(index)\n   if (chars.any { it.equals(charAtIndex, ignoreCase) })\n   return index\n   }\n\n   return -1\n}\n\n\nprivate fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int, ignoreCase: Boolean, last: Boolean = false): Int {\n   val indices = if (!last)\n   startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\n   else\n   startIndex.coerceAtMost(lastIndex) downTo endIndex.coerceAtLeast(0)\n\n   if (this is String && other is String) { // smart cast\n   for (index in indices) {\n   if (other.regionMatches(0, this, index, other.length, ignoreCase))\n   return index\n   }\n   } else {\n   for (index in indices) {\n

if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase))\n   return index\n   }\n   }\n
 return -1\n}\n\nprivate fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase:
Boolean, last: Boolean): Pair<Int, String>? {\n   if (!ignoreCase && strings.size == 1) {\n   val string =
strings.single()\n   val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)\n
return if (index < 0) null else index to string\n   }\n\n   val indices = if (!last) startIndex.coerceAtLeast(0)..length
else startIndex.coerceAtMost(lastIndex) downTo 0\n\n   if (this is String) {\n   for (index in indices) {\n
val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\n   if
(matchingString != null)\n   return index to matchingString\n   }\n   } else {\n   for (index in indices)
{\n   val matchingString
 = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }\n   if (matchingString !=
null)\n   return index to matchingString\n   }\n   }\n\n   return null\n}\n\n/**\n * Finds the first
occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and
optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By
default `false`.\n * @return A pair of an index of the first occurrence of matched string from [strings] and the string
matched\n * or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings]
have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each
position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun
CharSequence.findAnyOf(strings: Collection<String>, startIndex:
 Int = 0, ignoreCase: Boolean = false): Pair<Int, String>? =\n   findAnyOf(strings, startIndex, ignoreCase, last =
false)\n\n/**\n * Finds the last occurrence of any of the specified [strings] in this char sequence,\n * starting from
the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start
searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to
ignore character case when matching a string. By default `false`.\n * @return A pair of an index of the last
occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.\n *\n * To
avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the end
toward the beginning of this string, and finds at each position the first element in [strings]\n * that matches this
string at that position.\n */\npublic fun CharSequence.findLastAnyOf(strings:
 Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Pair<Int, String>? =\n
findAnyOf(strings, startIndex, ignoreCase, last = true)\n\n/**\n * Finds the index of the first occurrence of any of
the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the
case.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n *
@return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.\n *\n *
To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the
beginning to the end of this string, and finds at each position the first element in [strings]\n * that matches this string
at that position.\n */\npublic fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0,
ignoreCase: Boolean = false): Int =\n   findAnyOf(strings, startIndex, ignoreCase,
 last = false)?.first ?: -1\n\n/**\n * Finds the index of the last occurrence of any of the specified [strings] in this char
sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex
The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n *
@param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index
of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.\n *\n * To avoid
ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the end
toward the beginning of this string, and finds at each position the first element in [strings]\n * that matches this
string at that position.\n */\npublic fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int =
lastIndex, ignoreCase: Boolean = false): Int =\n   findAnyOf(strings,
 startIndex, ignoreCase, last = true)?.first ?: -1\n\n\n// indexOf\n\n/**\n * Returns the index within this string of the
first occurrence of the specified character, starting from the specified [startIndex].\n *\n * @param ignoreCase `true`
to ignore character case when matching a character. By default `false`.\n * @return An index of the first occurrence

of [char] or -1 if none is found.\n */\npublic fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n   return if (ignoreCase || this !is String)\n   indexOfAny(charArrayOf(char), startIndex, ignoreCase)\n   else\n   nativeIndexOf(char, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the first occurrence of the specified [string],\n * starting from the specified [startIndex].\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the first occurrence of [string] or `-1` if none is found.\n

 * @sample samples.text.Strings.indexOf\n */\npublic fun CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n   return if (ignoreCase || this !is String)\n   indexOf(string, startIndex, length, ignoreCase)\n   else\n   nativeIndexOf(string, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the last occurrence of the specified character,\n * starting from the specified [startIndex].\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the last occurrence of [char] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n   return if (ignoreCase || this !is String)\n   lastIndexOfAny(charArrayOf(char), startIndex,

 ignoreCase)\n   else\n   nativeLastIndexOf(char, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the last occurrence of the specified [string],\n * starting from the specified [startIndex].\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the last occurrence of [string] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n   return if (ignoreCase || this !is String)\n   indexOf(string, startIndex, 0, ignoreCase, last = true)\n   else\n   nativeLastIndexOf(string, startIndex)\n}\n\n/**\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as a substring.\n *\n * @param ignoreCase `true` to ignore character

 case when comparing strings. By default `false`.\n
*/\n@Suppress(\"INAPPLICABLE_OPERATOR_MODIFIER\")\npublic operator fun CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\n   if (other is String)\n   indexOf(other, ignoreCase = ignoreCase) >= 0\n   else\n   indexOf(other, 0, length, ignoreCase) >= 0\n\n\n/**\n * Returns `true` if this char sequence contains the specified character [char].\n *\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n

*/\n@Suppress(\"INAPPLICABLE_OPERATOR_MODIFIER\")\npublic operator fun CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =\n   indexOf(char, ignoreCase = ignoreCase) >= 0\n\n/**\n * Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean = regex.containsMatchIn(this)\n\n\n//

 rangesDelimitedBy\n\n\nprivate class DelimitedRangesSequence(\n   private val input: CharSequence,\n   private val startIndex: Int,\n   private val limit: Int,\n   private val getNextMatch: CharSequence.(currentIndex: Int) -> Pair<Int, Int>?\n) : Sequence<IntRange> {\n\n   override fun iterator(): Iterator<IntRange> = object : Iterator<IntRange> {\n   var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n   var currentStartIndex: Int = startIndex.coerceIn(0, input.length)\n   var nextSearchIndex: Int = currentStartIndex\n   var nextItem: IntRange? = null\n   var counter: Int = 0\n\n   private fun calcNext() {\n   if (nextSearchIndex < 0) {\n   nextState = 0\n   nextItem = null\n   } else {\n   if (limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {\n   nextItem = currentStartIndex..input.lastIndex\n   nextSearchIndex

 = -1\n   } else {\n   val match = input.getNextMatch(nextSearchIndex)\n   if (match == null) {\n   nextItem = currentStartIndex..input.lastIndex\n   nextSearchIndex = -1\n   } else {\n   val (index, length) = match\n   nextItem = currentStartIndex until index\n   currentStartIndex = index + length\n   nextSearchIndex = currentStartIndex + if (length ==

0) 1 else 0\n   }\n   }\n   nextState = 1\n   }\n   }\n\n   override fun next():
IntRange {\n   if (nextState == -1)\n   calcNext()\n   if (nextState == 0)\n   throw
NoSuchElementException()\n   val result = nextItem as IntRange\n   // Clean next to avoid keeping
reference on yielded instance\n   nextItem = null\n

    nextState = -1\n   return result\n   }\n\n   override fun hasNext(): Boolean {\n   if (nextState
== -1)\n   calcNext()\n   return nextState == 1\n   }\n   }\n}\n\n/**\n * Returns a sequence of index
ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n *\n * @param
delimiters One or more characters to be used as delimiters.\n * @param startIndex The index to start searching
delimiters from.\n * No range having its start value less than [startIndex] is returned.\n * [startIndex] is coerced to
be non-negative and not greater than length of this string.\n * @param ignoreCase `true` to ignore character case
when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero
by default means no limit is set.\n */\nprivate fun CharSequence.rangesDelimitedBy(delimiters: CharArray,
startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0):

 Sequence<IntRange> {\n   requireNonNegativeLimit(limit)\n\n   return DelimitedRangesSequence(this,
startIndex, limit, { currentIndex ->\n   indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let { if (it
< 0) null else it to 1 }\n   })\n}\n\n\n/**\n * Returns a sequence of index ranges of substrings in this char sequence
around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as
delimiters.\n * @param startIndex The index to start searching delimiters from.\n * No range having its start value
less than [startIndex] is returned.\n * [startIndex] is coerced to be non-negative and not greater than length of this
string.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n *
@param limit The maximum number of substrings to return. Zero by default means no limit is set.\n *\n * To avoid
ambiguous results when strings in [delimiters] have characters in common, this method
 proceeds from\n * the beginning to the end of this string, and finds at each position the first element in
[delimiters]\n * that matches this string at that position.\n */\nprivate fun
CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false,
limit: Int = 0): Sequence<IntRange> {\n   requireNonNegativeLimit(limit)\n   val delimitersList =
delimiters.asList()\n\n   return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->
findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length }
})\n\n}\n\ninternal fun requireNonNegativeLimit(limit: Int) =\n   require(limit >= 0) { \"Limit must be non-
negative, but was $limit\" }\n\n\n// split\n\n/**\n * Splits this char sequence to a sequence of strings around
occurrences of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as delimiters.\n
* @param ignoreCase `true` to ignore character
 case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.
Zero by default means no limit is set.\n *\n * To avoid ambiguous results when strings in [delimiters] have
characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each
position the first element in [delimiters]\n * that matches this string at that position.\n */\npublic fun
CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0):
Sequence<String> =\n   rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it)
}\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\n *\n *
@param delimiters One or more strings to be used as delimiters.\n * @param ignoreCase `true` to ignore character
case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.
 Zero by default means no limit is set.\n *\n * To avoid ambiguous results when strings in [delimiters] have
characters in common, this method proceeds from\n * the beginning to the end of this string, and matches at each
position the first element in [delimiters]\n * that is equal to a delimiter in this instance at that position.\n */\npublic
fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\n   if
(delimiters.size == 1) {\n   val delimiter = delimiters[0]\n   if (!delimiter.isEmpty()) {\n   return
split(delimiter, ignoreCase, limit)\n   }\n   }\n\n   return rangesDelimitedBy(delimiters, ignoreCase =
ignoreCase, limit = limit).asIterable().map { substring(it) }\n}\n\n/**\n * Splits this char sequence to a sequence of

strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\npublic fun CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\n   rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\npublic fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\n   if (delimiters.size == 1) {\n   return split(delimiters[0].toString(), ignoreCase, limit)\n   }\n\n   return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }\n\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].\n * This is specialized version of split which receives single non-empty delimiter and offers better performance\n *\n * @param delimiter String used as delimiter\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\nprivate fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {\n   requireNonNegativeLimit(limit)\n\n   var currentOffset = 0\n   var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n   if (nextIndex == -1 || limit == 1) {\n   return listOf(this.toString())\n   }\n\n   val isLimited = limit > 0\n   val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)\n   do {\n   result.add(substring(currentOffset, nextIndex))\n   currentOffset = nextIndex + delimiter.length\n   // Do not search for next occurrence if we're reaching limit\n   if (isLimited && result.size == limit - 1) break\n   nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n   } while (nextIndex != -1)\n\n   result.add(substring(currentOffset, length))\n   return result\n}\n\n/**\n * Splits this char sequence to a list of strings around matches of the given regular expression.\n *\n * @param limit Non-negative value specifying the maximum number of substrings to return.\n * Zero by default means no limit is set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> = regex.split(this, limit)\n\n/**\n * Splits this char sequence to a sequence of strings around matches of the given regular expression.\n *\n * @param limit Non-negative value specifying the maximum number of substrings to return.\n * Zero by default means no limit is set.\n * @sample samples.text.Strings.splitToSequence\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.splitToSequence(regex: Regex, limit: Int = 0): Sequence<String> = regex.splitToSequence(this, limit)\n\n/**\n * Splits this char sequence to a sequence of lines delimited by any of the following character sequences: CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n */\npublic fun CharSequence.lineSequence(): Sequence<String> = splitToSequence(\"\\r\\n\", \"\\n\", \"\\r\")\n\n/**\n * Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n */\npublic fun CharSequence.lines(): List<String> = lineSequence().toList()\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the contents of the specified [other],\n * i.e. both char sequences contain the same number of the same characters in the same order.\n *\n *\n * @sample samples.text.Strings.contentEquals\n */\n@SinceKotlin(\"1.5\")\npublic expect infix fun CharSequence?.contentEquals(other: CharSequence?): Boolean\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the contents of the specified [other], optionally ignoring case difference.\n *\n * @param ignoreCase `true` to ignore character case when comparing contents.\n *\n * @sample samples.text.Strings.contentEquals\n */\n@SinceKotlin(\"1.5\")\npublic expect fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase: Boolean): Boolean\n\ninternal fun CharSequence?.contentEqualsIgnoreCaseImpl(other: CharSequence?): Boolean {\n   if (this is String && other is String) {\n   return this.equals(other, ignoreCase = true)\n   }\n\n   if (this === other) return true\n   if (this == null || other == null || this.length != other.length) return false\n\n   for (i in 0 until length) {\n

if (!this[i].equals(other[i], ignoreCase = true)) {\n   return false\n   }\n   }\n\n   return true\n}\n\n\ninternal fun CharSequence?.contentEqualsImpl(other: CharSequence?): Boolean {\n   if (this is String && other is String)\n{\n   return this == other\n   }\n\n   if (this === other) return true\n   if (this == null || other == null || this.length != other.length) return false\n\n   for (i in 0 until length) {\n   if (this[i] != other[i]) {\n   return false\n   }\n   }\n\n   return true\n}\n\n\n/**\n * Returns `true` if the content of this string is equal to the word \"true\", `false` if it is equal to \"false\",\n * and throws an exception otherwise.\n *\n * There is also a lenient version of the function available on nullable String, [String?.toBoolean].\n * Note that this function is case-sensitive.\n *\n * @sample samples.text.Strings.toBooleanStrict\n */\n@SinceKotlin(\"1.5\")\npublic fun String.toBooleanStrict(): Boolean = when (this)

{\n   \"true\" -> true\n   \"false\" -> false\n   else -> throw IllegalArgumentException(\"The string doesn't represent a boolean value: $this\")\n}\n\n\n/**\n * Returns `true` if the content of this string is equal to the word \"true\", `false` if it is equal to \"false\",\n * and `null` otherwise.\n *\n * There is also a lenient version of the function available on nullable String, [String?.toBoolean].\n * Note that this function is case-sensitive.\n *\n * @sample samples.text.Strings.toBooleanStrictOrNull\n */\n@SinceKotlin(\"1.5\")\npublic fun String.toBooleanStrictOrNull(): Boolean? = when (this) {\n   \"true\" -> true\n   \"false\" -> false\n   else -> null\n}","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic

 value class UByteArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\n\n   /** Creates a new array of the specified [size], with all elements initialized to zero. */\n   public constructor(size: Int) : this(ByteArray(size))\n\n   /**\n   * Returns the array element at the given [index]. This method can be called using the index operator.\n   *\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public operator fun get(index: Int): UByte = storage[index].toUByte()\n\n   /**\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n   *\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n

     */\n   public operator fun set(index: Int, value: UByte) {\n   storage[index] = value.toByte()\n   }\n\n   /** Returns the number of elements in the array. */\n   public override val size: Int get() = storage.size\n\n   /** Creates an iterator over the elements of the array. */\n   public override operator fun iterator():
kotlin.collections.Iterator<UByte> = Iterator(storage)\n\n   @Suppress(\"DEPRECATION_ERROR\")\n   private class Iterator(private val array: ByteArray) : UByteIterator() {\n   private var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextUByte() = if (index < array.size) array[index++].toUByte() else throw NoSuchElementException(index.toString())\n   }\n\n   override fun contains(element: UByte): Boolean {\n   // TODO: Eliminate this check after KT-30016 gets fixed.\n   // Currently JS BE does not generate special bridge method for this method.\n   @Suppress(\"USELESS_CAST\")\n   if ((element
 as Any?) !is UByte) return false\n\n   return storage.contains(element.toByte())\n   }\n\n   override fun containsAll(elements: Collection<UByte>): Boolean {\n   return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\n   }\n\n   override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n   return UByteArray(ByteArray(size) { index -> init(index).toByte()
})\n}\n\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ubyteArrayOf(vararg

elements: UByte): UByteArray = elements\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class UIntArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {\n\n   /** Creates a new array of the specified [size], with all elements initialized to zero. */   public constructor(size: Int) : this(IntArray(size))\n\n   /**\n   * Returns the array element at the given [index]. This method can be called using the index operator.\n   *\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public operator fun get(index: Int): UInt = storage[index].toUInt()\n\n   /**\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n   *\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public operator fun set(index: Int, value: UInt) {\n   storage[index] = value.toInt()\n   }\n\n   /** Returns the number of elements in the array. */   public override val size: Int get() = storage.size\n\n   /** Creates an iterator over the elements of the array. */   public override operator fun iterator(): kotlin.collections.Iterator<UInt> = Iterator(storage)\n\n   @Suppress(\"DEPRECATION_ERROR\")\n   private class Iterator(private val array: IntArray) : UIntIterator() {\n   private var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextUInt() = if (index < array.size) array[index++].toUInt() else throw NoSuchElementException(index.toString())\n   }\n\n   override fun contains(element: UInt): Boolean {\n   // TODO: Eliminate this check after KT-30016 gets fixed.\n   // Currently JS BE does not generate special bridge method for this method.\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is UInt) return false\n\n   return storage.contains(element.toInt())\n   }\n\n   override fun containsAll(elements: Collection<UInt>): Boolean {\n   return (elements as Collection<*>).all { it is UInt && storage.contains(it.toInt()) }\n   }\n\n   override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\n   return UIntArray(IntArray(size) { index -> init(index).toInt() })\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun uintArrayOf(vararg elements: UInt): UIntArray = elements\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class ULongArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {\n\n   /** Creates a new array of the specified [size], with all elements initialized to zero. */\n   public constructor(size: Int) : this(LongArray(size))\n\n   /**\n   * Returns the array element at the given [index]. This method can be called using the index operator.\n   *\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public operator fun get(index: Int): ULong = storage[index].toULong()\n\n   /**\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n   *\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public operator fun set(index: Int, value: ULong) {\n   storage[index] = value.toLong()\n   }\n\n   /** Returns the number of elements in the array. */   public override val size: Int get() = storage.size\n\n   /** Creates an iterator over the elements of the array. */\n

public override operator fun iterator(): kotlin.collections.Iterator<ULong> = Iterator(storage)\n\n
@Suppress(\"DEPRECATION_ERROR\")\n   private class Iterator(private val array: LongArray) : ULongIterator()
{\n   private var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextULong() = if
(index < array.size) array[index++].toULong() else throw NoSuchElementException(index.toString())\n   }\n\n
override fun contains(element: ULong): Boolean {\n   // TODO: Eliminate this check after KT-30016 gets
fixed.\n   // Currently JS BE does not generate special bridge method for this method.\n
@Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is ULong) return false\n\n   return
storage.contains(element.toLong())\n   }\n\n   override fun containsAll(elements: Collection<ULong>): Boolean
{\n   return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }\n   }\n\n   override
fun

 isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each
element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array
element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\n   return ULongArray(LongArray(size) { index ->
init(index).toLong()

})\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ulongArrayOf(vararg elements: ULong): ULongArray = elements\n","/*\n * Copyright 2010-2022 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file.

 DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.jvm.*\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class
UShortArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ShortArray) :
Collection<UShort> {\n\n   /** Creates a new array of the specified [size], with all elements initialized to zero. */\n
 public constructor(size: Int) : this(ShortArray(size))\n\n   /**\n   * Returns the array element at the given [index].
This method can be called using the index operator.\n   *\n   * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public
operator fun get(index: Int): UShort = storage[index].toUShort()\n\n   /**\n   * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n   *\n   * If the [index] is out of
bounds of this array, throws an [IndexOutOfBoundsException]

 except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public operator fun set(index: Int, value:
UShort) {\n   storage[index] = value.toShort()\n   }\n\n   /** Returns the number of elements in the array. */\n
public override val size: Int get() = storage.size\n\n   /** Creates an iterator over the elements of the array. */\n
public override operator fun iterator(): kotlin.collections.Iterator<UShort> = Iterator(storage)\n\n
@Suppress(\"DEPRECATION_ERROR\")\n   private class Iterator(private val array: ShortArray) :
UShortIterator() {\n   private var index = 0\n   override fun hasNext() = index < array.size\n   override fun
nextUShort() = if (index < array.size) array[index++].toUShort() else throw
NoSuchElementException(index.toString())\n   }\n\n   override fun contains(element: UShort): Boolean {\n   //
TODO: Eliminate this check after KT-30016 gets fixed.\n   // Currently JS BE does not generate special
 bridge method for this method.\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is UShort)
return false\n\n   return storage.contains(element.toShort())\n   }\n\n   override fun containsAll(elements:
Collection<UShort>): Boolean {\n   return (elements as Collection<*>).all { it is UShort &&
storage.contains(it.toShort()) }\n   }\n\n   override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n *
Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]
function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It
should return the value for an array element given its index.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n   return UShortArray(ShortArray(size) { index ->

init(index).toShort()

})\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ushortArrayOf(vararg elements: UShort): UShortArray = elements\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UArraysKt\")\n@file:kotlin.jvm.JvmPackageName(\"kotlin.collections.unsigned\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component1(): UInt {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component1(): ULong {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component1(): UByte {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException]

 except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component1(): UShort {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component2(): UInt {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component2(): ULong {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element*

 from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component2(): UByte {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component2(): UShort {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component3(): UInt {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun

ULongArray.component3(): ULong {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component3(): UByte {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the array.\n * \n * If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline operator fun UShortArray.component3(): UShort {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component4(): UInt {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component4(): ULong {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws

 an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component4(): UByte {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component4(): UShort {\n   return get(3)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component5(): UInt {\n   return get(4)\n}\n\n/**\n * Returns

 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component5(): ULong {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component5(): UByte {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the array.\n * \n * If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline operator fun UShortArray.component5(): UShort {\n   return get(4)\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int): UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int): ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect
 fun UByteArray.elementAt(index: Int): UByte\n\n/**\n * Returns an element at the given [index] or throws an
[IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAt\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int):
UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the
[index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n   return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds
 of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n   return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the
result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrElse\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n   return if (index >= 0 && index
<= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result
of calling the [defaultValue] function if the [index] is out of bounds of this
 array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n   return if (index >= 0 &&
index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or
`null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.elementAtOrNull(index: Int): UInt? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element
at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun ULongArray.elementAtOrNull(index: Int): ULong? {\n   return this.getOrNull(index)\n}\n\n/**\n *
Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.elementAtOrNull(index: Int): UByte? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an
element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.elementAtOrNull\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.elementAtOrNull(index: Int): UShort? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n

 */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching

 the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.findLast(predicate:

 (ULong) -> Boolean): ULong? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.find\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun UIntArray.first(): UInt {\n   return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.first(): ULong {\n   return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.first(): UByte {\n   return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.first(): UShort {\n   return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no

 such element is found.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

 fun ULongArray.firstOrNull(): ULong? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.firstOrNull(): UByte? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.firstOrNull(): UShort? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given

 [predicate], or `null` if element was not found.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n   for (element in this) if (predicate(element)) return

 element\n   return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this

array.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n   return if (index

 >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int): ULong? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

 fun UShortArray.getOrNull(index: Int): UShort? {\n   return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOf(element: UInt): Int {\n   return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOf(element: ULong): Int {\n   return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOf(element: UByte): Int {\n   return storage.indexOf(element.toByte())\n}\n\n/**\n *

 Returns first index of [element], or -1 if the array does not contain element.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOf(element: UShort): Int {\n   return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toULong()) }\n}\n\n/**\n *

 Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n   return storage.indexOfFirst {

predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n

   return storage.indexOfLast { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(): UInt {\n   return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(): ULong {\n   return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(): UByte {\n   return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(): UShort {\n   return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n

for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.lastIndexOf(element: UInt): Int {\n   return storage.lastIndexOf(element.toInt())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.lastIndexOf(element: ULong): Int {\n   return storage.lastIndexOf(element.toLong())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.lastIndexOf(element: UByte): Int {\n   return storage.lastIndexOf(element.toByte())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.lastIndexOf(element: UShort): Int {\n   return storage.lastIndexOf(element.toShort())\n}\n\n/**\n * Returns

the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.lastOrNull(): UInt? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

fun UShortArray.lastOrNull(): UShort? {\n   return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n   for (index in this.indices.reversed())

{\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n   for (index in this.indices.reversed()) {\n

val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.random(): UInt {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.random(): ULong {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.random(): UByte {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.random(): UShort {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random): ULong {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n

* Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random): UByte {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random): UShort {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.randomOrNull(): UInt? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.randomOrNull(): ULong? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.randomOrNull(): UByte? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.randomOrNull(): UShort?

{\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun UIntArray.randomOrNull(random: Random): UInt? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ULongArray.randomOrNull(random: Random): ULong? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic

 fun UByteArray.randomOrNull(random: Random): UByte? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun UShortArray.randomOrNull(random: Random): UShort? {\n   if (isEmpty())\n   return null\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.single(): UInt {\n   return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun ULongArray.single(): ULong {\n   return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.single(): UByte {\n   return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.single(): UShort {\n   return storage.single().toUShort()\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n

    var single: UInt? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as UInt\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n   var single: ULong? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n

    single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as ULong\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n   var single: UByte? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as UByte\n}\n\n/**\n
 * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n   var single: UShort? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as UShort\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {\n   return if (size == 1) this[0]
 else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.singleOrNull(): ULong? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.singleOrNull(): UByte? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.singleOrNull(): UShort? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {\n   var single: UInt? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n   var single: ULong? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given
 [predicate], or `null` if element was not found or more than one element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n   var single: UByte? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n   var single: UShort? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n

require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.drop(n: Int): List<ULong> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int): List<ULong> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int): List<UShort> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.dropLastWhile(predicate:
 (UByte) -> Boolean): List<UByte> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return take(index + 1)\n   }\n   }\n   return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n   var yielding = false\n   val list = ArrayList<UInt>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n   var yielding = false\n   val list = ArrayList<ULong>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item))\n{\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except
 first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n   var yielding = false\n   val list = ArrayList<UByte>()\n   for (item in this)\n   if (yielding)\n   list.add(item)\n   else if (!predicate(item))\n{\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n   var yielding = false\n   val list = ArrayList<UShort>()\n   for (item in this)\n

        if (yielding)\n   list.add(item)\n   else if (!predicate(item)) {\n   list.add(item)\n   yielding = true\n   }\n   return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n   return filterTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n   return filterTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n *
 \n * @sample samples.collections.Collections.Filtering.filter\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n   return filterTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {\n   return filterTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n   return filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {\n   return filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation

on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n   return filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n   return filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n *

@sample samples.collections.Collections.Filtering.filterIndexedTo\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n   return filterNotTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n   return filterNotTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n   return filterNotTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n   return filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterNotTo(destination:
 C, predicate: (ULong) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean):
 C {\n   for (element in this) if (!predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :

MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n   for (element in this) if (predicate(element))

 destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n   for (element in this) if (predicate(element)) destination.add(element)\n   return destination\n}\n\n/**\n

 * Returns a list containing elements at indices in the specified [indices] range.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange): List<UInt> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange): List<ULong> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange): List<UByte> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n

 * Returns a list containing elements at indices in the specified [indices] range.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange): List<UShort> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: Iterable<Int>): List<UInt> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UInt>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>): List<ULong> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size ==

 0) return emptyList()\n   val list = ArrayList<ULong>(size)\n   for (index in indices) {\n   list.add(get(index))\n

 }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>): List<UByte> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UByte>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>): List<UShort> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UShort>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns an array

 containing elements of this array at specified [indices].\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: Collection<Int>): UIntArray {\n   return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: Collection<Int>): ULongArray {\n   return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array

containing elements of this array at specified [indices].\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: Collection<Int>): UByteArray {\n   return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices: Collection<Int>): UShortArray {\n

   return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: IntRange): UIntArray {\n   return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: IntRange): ULongArray {\n   return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: IntRange): UByteArray {\n   return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

 fun UShortArray.sliceArray(indices: IntRange): UShortArray {\n   return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.take(n: Int): List<UInt> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<UInt>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

 fun ULongArray.take(n: Int): List<ULong> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<ULong>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<UByte>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[0])\n   var count = 0\n   val list = ArrayList<UShort>(n)\n   for (item in this) {\n   list.add(item)\n   if (++count == n)\n   break\n   }\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

fun UIntArray.takeLast(n: Int): List<UInt> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UInt>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<ULong>(n)\n   for (index in size - n

until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UByte>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UShort>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n   val list = ArrayList<UInt>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list

containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n   val list = ArrayList<ULong>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n   val list = ArrayList<UByte>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n   val list = ArrayList<UShort>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Reverses elements in the array in-place.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reverse(): Unit {\n   storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reverse(): Unit {\n   storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reverse(): Unit {\n   storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reverse(): Unit {\n   storage.reverse()\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n   storage.reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.reversed(): List<UInt> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

fun ULongArray.reversed(): List<ULong> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.reversed(): List<UByte> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.reversed(): List<UShort> {\n   if (isEmpty()) return emptyList()\n   val list = toMutableList()\n   list.reverse()\n   return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reversedArray(): UIntArray {\n   return UIntArray(storage.reversedArray())\n}\n\n/**\n * Returns an array

with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reversedArray(): ULongArray {\n   return ULongArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reversedArray(): UByteArray {\n   return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reversedArray(): UShortArray {\n   return UShortArray(storage.reversedArray())\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(): Unit {\n   shuffle(Random)\n}\n\n/**\n * Randomly shuffles

elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(): Unit {\n   shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(): Unit {\n   shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(): Unit {\n   shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j]

= copy\n   }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j] = copy\n   }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(random: Random):

Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j] = copy\n

    }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the source of randomness.\n * \n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(random: Random): Unit {\n   for (i in lastIndex downTo 1) {\n   val j = random.nextInt(i + 1)\n   val copy = this[i]\n   this[i] = this[j]\n   this[j] = copy\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(): Unit {\n   if (size > 1)

 {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(): Unit {\n   if (size > 1) {\n   sort()\n   reverse()\n   }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sorted(): List<UInt> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sorted():

 List<ULong> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted(): List<UByte> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted(): List<UShort> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArray(): UIntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

 fun ULongArray.sortedArray(): ULongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending(): UIntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply

 { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending(): ULongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun

UByteArray.sortedArrayDescending(): UByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending(): UShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedDescending(): List<ULong> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedDescending(): List<UByte> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedDescending(): List<UShort> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.asByteArray(): ByteArray {\n   return storage\n}\n\n/**\n * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.asIntArray(): IntArray {\n   return storage\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList(): List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList(): List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList(): List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList(): List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.asLongArray(): LongArray {\n   return storage\n}\n\n/**\n * Returns an array of type [ShortArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.asShortArray(): ShortArray {\n   return storage\n}\n\n/**\n * Returns an array of type [UByteArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.asUByteArray(): UByteArray {\n   return UByteArray(this)\n}\n\n/**\n * Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

IntArray.asUIntArray(): UIntArray {\n   return UIntArray(this)\n}\n\n/**\n * Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.asULongArray(): ULongArray {\n   return ULongArray(this)\n}\n\n/**\n * Returns an array of type [UShortArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.asUShortArray(): UShortArray {\n   return UShortArray(this)\n}\n\n/**\n * Returns `true`
 if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =

\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.contentEquals(other: UIntArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =

\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.contentEquals(other: ULongArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain

 the same number of the same elements in the same order.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =

\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.contentEquals(other: UByteArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =

\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.contentEquals(other: UShortArray): Boolean {\n   return this.contentEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic

 infix fun UIntArray?.contentEquals(other: UIntArray?): Boolean {\n   return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray?.contentEquals(other: ULongArray?): Boolean {\n   return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray?.contentEquals(other: UByteArray?): Boolean {\n   return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number

 of the same elements in the same order.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray?.contentEquals(other: UShortArray?): Boolean {\n   return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =

\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n

*/\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode(): Int {\n   return this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentHashCode(): Int {\n   return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray?.contentHashCode(): Int {\n   return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentHashCode(): Int {\n   return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray?.contentHashCode(): Int {\n   return this?.storage.contentHashCode()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n   return this.contentToString()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentToString(): String {\n   return this?.joinToString(\", \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray?.contentToString(): String

{\n   return this?.joinToString(\", \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentToString(): String {\n return this?.joinToString(\", \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray?.contentToString(): String {\n return this?.joinToString(\", \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UIntArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ULongArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UByteArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n *

It's allowed to pass the same array in the [destination] and even
 specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyInto(destination: UShortArray, destinationOffset:
 Int = 0, startIndex: Int = 0, endIndex: Int = size): UShortArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(): UIntArray {\n   return UIntArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOf(): ULongArray {\n   return ULongArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UByteArray.copyOf(): UByteArray {\n   return UByteArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(): UShortArray {\n   return UShortArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(newSize:
 Int): UIntArray {\n   return UIntArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOf(newSize: Int): ULongArray {\n   return ULongArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated
 to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOf(newSize: Int): UByteArray {\n   return UByteArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the

original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(newSize: Int): UShortArray {\n   return UShortArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n   return UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n   return ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n   return UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n   return UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater

than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less

than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n   get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n   get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n   get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n   get() = storage.indices\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n   get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n   get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n   get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n   get() = storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.plus(element: UInt): UIntArray {\n   return UIntArray(storage + element.toInt())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(element: ULong): ULongArray {\n   return ULongArray(storage + element.toLong())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.plus(element: UByte): UByteArray {\n   return UByteArray(storage + element.toByte())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(element: UShort): UShortArray {\n   return UShortArray(storage + element.toShort())\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntArray.plus(elements: Collection<UInt>): UIntArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toInt()\n   return UIntArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongArray.plus(elements: Collection<ULong>): ULongArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toLong()\n   return ULongArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UByteArray.plus(elements:

Collection<UByte>): UByteArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n for (element in elements) result[index++] = element.toByte()\n   return UByteArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UShortArray.plus(elements: Collection<UShort>): UShortArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n for (element in elements) result[index++] = element.toShort()\n   return UShortArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array

 and then all elements of the given [elements] array.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.plus(elements: UIntArray): UIntArray {\n   return UIntArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(elements: ULongArray): ULongArray {\n   return ULongArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.plus(elements: UByteArray): UByteArray {\n   return UByteArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing

 all elements of the original array and then all elements of the given [elements] array.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {\n   return UShortArray(storage + elements.storage)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(): Unit {\n   if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(): Unit {\n   if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(): Unit {\n   if (size >

 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit {\n   if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n *\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   sortArray(this, fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n *\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   sortArray(this, fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array

by default.\n * \n * @throws IndexOutOfBoundsException

 if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic

 fun UShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   sortArray(this, fromIndex, toIndex)\n}\n\n/**\n *
Sorts elements of the array in the specified range in-place.\n * The elements are sorted descending according to their
natural sort order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end
of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex,
toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements

 are sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range
(inclusive) to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size

 of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n   sort(fromIndex, toIndex)\n   reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns

 an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation\n * of the
corresponding element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.toByteArray(): ByteArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type
[IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding
element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.toIntArray(): IntArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type [LongArray],

which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.toLongArray(): LongArray {\n   return

 storage.copyOf()\n}\n\n/**\n * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.toShortArray(): ShortArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.toTypedArray(): Array<UInt> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.toTypedArray(): Array<ULong> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

 fun UByteArray.toTypedArray(): Array<UByte> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.toTypedArray(): Array<UShort> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of UByte containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UByte>.toUByteArray(): UByteArray {\n   return UByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.toUByteArray(): UByteArray {\n

    return UByteArray(this.copyOf())\n}\n\n/**\n * Returns an array of UInt containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.toUIntArray(): UIntArray {\n   return UIntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UIntArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.toUIntArray(): UIntArray {\n   return UIntArray(this.copyOf())\n}\n\n/**\n * Returns an array of ULong containing all of the elements of this generic array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.toULongArray(): ULongArray {\n   return ULongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [ULongArray], which is a copy of this array where

 each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.toULongArray(): ULongArray {\n   return ULongArray(this.copyOf())\n}\n\n/**\n * Returns an array of UShort containing all of the elements of this generic array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.toUShortArray(): UShortArray {\n   return UShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UShortArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.toUShortArray(): UShortArray {\n   return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values

 are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n *

\n * @sample samples.collections.Collections.Transformations.associateWith\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {\n   val result = LinkedHashMap<UInt, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n

 */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V> {\n   val result = LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {\n   val result = LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result,
 valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UShortArray.associateWith(valueSelector: (UShort) -> V): Map<UShort, V> {\n   val result = LinkedHashMap<UShort, V>(mapCapacity(size).coerceAtLeast(16))\n   return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any

 two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
 fun <V, M : MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination: M, valueSelector: (ULong) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Populates

and returns the [destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample samples.collections.Collections.Transformations.associateWithTo\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination: M, valueSelector: (UShort) -> V): M {\n   for (element in this) {\n   destination.put(element, valueSelector(element))\n   }\n   return destination\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n

    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.flatMapIndexed(transform: (index: Int, UInt)

 -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.flatMapIndexed(transform: (index: Int, ULong) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun <R> UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {\n   return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {\n   return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its

 index in the original array, to the given [destination].\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) ->
Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n
destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination:

 C, transform: (index: Int, ULong) -> Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list =
transform(index++, element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element\n * and its index in the original
array, to the given [destination].\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) ->
Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n
destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each

 element\n * and its index in the original array, to the given [destination].\n
*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) ->
Iterable<R>): C {\n   var index = 0\n   for (element in this) {\n   val list = transform(index++, element)\n
destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n   for
(element in this) {\n   val list = transform(element)\n

     destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n   for
(element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n   for
(element in this) {\n   val list =

 transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Appends all elements
yielded from results of [transform] function being invoked on each element of original array, to the given

[destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n   for (element in this) {\n   val list = transform(element)\n   destination.addAll(list)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n   return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n   return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n   return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n   return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns

a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<UInt>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<ULong>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<UByte>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<UShort>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V,

M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K, valueTransform: (UByte) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.map(transform: (UInt) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.map(transform: (UByte) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.map(transform: (UShort) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each

element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n   return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {\n   return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n   return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n   return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each
element and its index in the original array\n * and appends the results to the given [destination].\n * @param
[transform] function that takes the index of an element and
 the element itself\n * and returns the result of the transform applied to the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n   var
index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n *
Applies the given [transform] function to each element and its index in the original array\n * and appends the results
to the given [destination].\n * @param [transform] function that takes the index of an element and the element
itself\n * and returns the result of the transform applied to the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n
 var index = 0\n   for (item in this)\n
      destination.add(transform(index++, item))\n   return destination\n}\n\n/**\n * Applies the given [transform]
function to each element and its index in the original array\n * and appends the results to the given [destination].\n *
@param [transform] function that takes the index of an element and the element itself\n * and returns the result of
the transform applied to the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {\n
var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n
* and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns
 the result of the transform applied to the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n
 var index = 0\n   for (item in this)\n   destination.add(transform(index++, item))\n   return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n

*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n

*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n

*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n

*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination:

C, transform: (UShort) -> R): C {\n   for (item in this)\n   destination.add(transform(item))\n   return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n

*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n

 *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.withIndex(): Iterable<IndexedValue<UByte>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.withIndex(): Iterable<IndexedValue<UShort>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n

*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n

 *\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n

*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n

*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element))\n return false\n   return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n

*\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n

* \n * @sample samples.collections.Collections.Aggregates.any\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.any(predicate: (UInt) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns

`true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.count(predicate: (UInt)

-> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.count(predicate: (UShort)

-> Boolean): Int {\n   var count = 0\n   for (element in this) if (predicate(element)) ++count\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n

* \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n   var accumulator = initial\n
    for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial]
 value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): R {\n   var index = 0\n   var accumulator = initial\n
    for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n

* to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRight(initial: R, operation: (UInt, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n

}\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the

array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>

UByteArray.foldRightIndexed(initial: R, operation:
 (index: Int, UByte, acc: R) -> R): R {\n   var index = lastIndex\n   var accumulator = initial\n   while (index >= 0)
{\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n   var index =
lastIndex\n   var accumulator = initial\n   while (index >= 0) {\n   accumulator = operation(index, get(index),
 accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Performs the given [action] on each
element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEach(action: (ULong) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEach(action: (UByte) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
 fun UShortArray.forEach(action: (UShort) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element, providing sequential index with the element.\n * @param [action]
function that takes the index of an element and the element itself\n * and performs the action on the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n   var index = 0\n   for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {\n   var index
 = 0\n   for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element,
providing sequential index with the element.\n * @param [action] function that takes the index of an element and
the element itself\n * and performs the action on the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n   var index = 0\n   for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n   var index = 0\n   for (item in this)
action(index++, item)\n}\n\n@Deprecated(\"Use
 maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.max(): UInt? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\",
ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max():
ULong? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\",

ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max(): UByte? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxOrNull instead.\", ReplaceWith(\"this.maxOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.max(): UShort? {\n   return maxOrNull()\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {\n   return maxByOrNull(selector)\n}\n\n@Deprecated(\"Use maxByOrNull instead.\", ReplaceWith(\"this.maxByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n   return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxByOrNull(selector: (UInt) -> R): UInt? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxByOrNull(selector: (UByte) -> R): UByte? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the first

element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxByOrNull(selector: (UShort) -> R): UShort? {\n   if (isEmpty()) return null\n   var maxElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return maxElem\n   var maxValue = selector(maxElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (maxValue < v) {\n   maxElem = e\n   maxValue = v\n   }\n   }\n   return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.maxOf(selector: (UInt) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.maxOf(selector: (ULong) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.maxOf(selector: (UByte) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.maxOf(selector: (UShort) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]

function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.maxOf(selector: (UInt) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]

function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.maxOf(selector: (ULong) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.maxOf(selector: (UByte) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.maxOf(selector: (UShort) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxOf(selector: (ULong) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxOf(selector: (UByte) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.maxOfOrNull(selector:

 (ULong) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.maxOfOrNull(selector: (UByte) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns

 the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.maxOfOrNull(selector: (UShort) -> Double): Double? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun UIntArray.maxOfOrNull(selector: (UInt) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.maxOfOrNull(selector: (ULong) -> Float): Float? {\n   if (isEmpty()) return

null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.maxOfOrNull(selector: (UByte) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.maxOfOrNull(selector: (UShort) -> Float): Float? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   maxValue = maxOf(maxValue, v)\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxOfOrNull(selector: (UInt) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxOfOrNull(selector: (ULong) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxOfOrNull(selector: (UByte) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxOfOrNull(selector: (UShort) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (maxValue < v) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.maxOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v

= selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.maxOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n

 * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.maxOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun <R> UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector:

 (UInt) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n

    }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n   if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun <R> UShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n
if (isEmpty()) return null\n   var maxValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v =
selector(this[i])\n   if (comparator.compare(maxValue, v) < 0) {\n   maxValue = v\n   }\n   }\n   return
maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxOrNull(): UInt? {\n   if
(isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (max < e) max
= e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic
 fun ULongArray.maxOrNull(): ULong? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in
1..lastIndex) {\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest
element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.maxOrNull(): UByte? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n
    val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null`
if there are no elements.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.maxOrNull(): UShort? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex)
{\n   val e = this[i]\n   if (max < e) max = e\n   }\n   return max\n}\n\n@Deprecated(\"Use maxWithOrNull
instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince
 = \"1.4\", errorSince = \"1.5\", hiddenSince =
\"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWith(comparator:
Comparator<in UInt>): UInt? {\n   return maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull
instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\n   return
maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull instead.\",
ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince
= \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.maxWith(comparator: Comparator<in UByte>): UByte? {\n   return
maxWithOrNull(comparator)\n}\n\n@Deprecated(\"Use maxWithOrNull
 instead.\", ReplaceWith(\"this.maxWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\",
errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.maxWith(comparator: Comparator<in UShort>): UShort? {\n   return
maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWithOrNull(comparator:
Comparator<in UInt>): UInt? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n
val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun
 ULongArray.maxWithOrNull(comparator: Comparator<in ULong>): ULong? {\n   if (isEmpty()) return null\n
var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max =
e\n   }\n   return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided
[comparator] or `null` if there are no elements.\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxWithOrNull(comparator:
Comparator<in UByte>): UByte? {\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n
   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWithOrNull(comparator: Comparator<in UShort>): UShort?

{\n   if (isEmpty()) return null\n   var max = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(max, e) < 0) max = e\n   }\n   return max\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min(): ULong? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.min(): UByte? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minOrNull instead.\", ReplaceWith(\"this.minOrNull()\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.min(): UShort? {\n   return minOrNull()\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n   return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\n   return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {\n   return minByOrNull(selector)\n}\n\n@Deprecated(\"Use minByOrNull instead.\", ReplaceWith(\"this.minByOrNull(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n   return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null`

if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minByOrNull(selector: (UInt) -> R): UInt? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minByOrNull(selector:

(ULong) -> R): ULong? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minByOrNull(selector: (UByte) -> R): UByte? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minByOrNull(selector: (UShort) -> R): UShort? {\n   if (isEmpty()) return null\n   var minElem = this[0]\n   val lastIndex = this.lastIndex\n   if (lastIndex == 0) return minElem\n   var minValue = selector(minElem)\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   val v = selector(e)\n   if (minValue > v) {\n   minElem = e\n   minValue = v\n   }\n   }\n   return minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.minOf(selector: (UInt) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.minOf(selector: (ULong) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.minOf(selector: (UByte) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.minOf(selector: (UShort) -> Double): Double {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue =

minOf(minValue, v)\n

    }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.minOf(selector: (UInt) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the

 returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.minOf(selector: (ULong) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun UByteArray.minOf(selector: (UByte) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.minOf(selector: (UShort) -> Float): Float {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i

 in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minOf(selector: (UInt) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException

 if the array is empty.\n */\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minOf(selector: (ULong) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the

array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minOf(selector: (UByte)

-> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minOf(selector: (UShort) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns

the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.minOfOrNull(selector: (UInt) -> Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

inline fun ULongArray.minOfOrNull(selector: (ULong) -> Double): Double? {\n   if (isEmpty()) return null\n var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.minOfOrNull(selector: (UByte) -> Double): Double? {\n   if (isEmpty())

return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.minOfOrNull(selector: (UShort) -> Double): Double? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]

function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.minOfOrNull(selector: (UInt) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue =

selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.minOfOrNull(selector: (ULong) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.minOfOrNull(selector: (UByte) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for

 (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.minOfOrNull(selector: (UShort) -> Float): Float? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   minValue = minOf(minValue, v)\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null`

 if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.minOfOrNull(selector: (UInt) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.minOfOrNull(selector: (ULong) -> R): R? {\n   if (isEmpty())

 return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.minOfOrNull(selector: (UByte) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element

 in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :

Comparable<R>> UShortArray.minOfOrNull(selector: (UShort) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (minValue > v) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the

 provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n   if (isEmpty()) throw NoSuchElementException()\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun <R> UIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return

minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector] function applied to each element in the array or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n   if (isEmpty()) return null\n   var minValue = selector(this[0])\n   for (i in 1..lastIndex) {\n   val v = selector(this[i])\n   if (comparator.compare(minValue, v) > 0) {\n   minValue = v\n   }\n   }\n   return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minOrNull(): UInt? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minOrNull(): ULong? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minOrNull(): UByte? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minOrNull(): UShort? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (min > e) min = e\n   }\n   return min\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {\n   return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {\n   return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {\n   return minWithOrNull(comparator)\n}\n\n@Deprecated(\"Use minWithOrNull instead.\", ReplaceWith(\"this.minWithOrNull(comparator)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\", hiddenSince = \"1.6\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n   return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n *\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator: Comparator<in UInt>): UInt? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n

val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n

    }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWithOrNull(comparator: Comparator<in ULong>): ULong? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n

    val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWithOrNull(comparator: Comparator<in UByte>): UByte? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n

    val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having

 the smallest value according to the provided [comparator] or `null` if there are no elements.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWithOrNull(comparator: Comparator<in UShort>): UShort? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n

    val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns

`true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns

 `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n

* @sample samples.collections.Collections.Aggregates.none\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n

 * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(predicate:

 (UShort) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.onEach(action: (UInt) -> Unit): UIntArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

ULongArray.onEach(action: (ULong) -> Unit): ULongArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.onEach(action: (UByte) -> Unit): UByteArray

{\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.onEach(action: (UShort) -> Unit): UShortArray {\n   return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n

 * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.onEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.onEachIndexed(action: (index: Int, UByte) -> Unit): UByteArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the

 element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.onEachIndexed(action: (index: Int, UShort) -> Unit): UShortArray {\n   return apply { forEachIndexed(action) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return

accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for

(index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element,
 current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort {\n   if (isEmpty())\n   throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and
 calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun ULongArray.reduceIndexedOrNull(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceIndexedOrNull(operation:
 (index: Int, acc: UByte, UByte) -> UByte): UByte? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceIndexedOrNull(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort? {\n   if (isEmpty())\n
    return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first

element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceOrNull(operation: (acc: ULong, ULong) -> ULong): ULong? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceOrNull(operation: (acc: UByte, UByte) -> UByte): UByte? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceOrNull(operation: (acc: UShort, UShort) -> UShort): UShort? {\n   if (isEmpty())\n   return null\n   var accumulator = this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next

accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n   var index = lastIndex\n   if
(index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator =
get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the

 next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {\n   var index = lastIndex\n   if (index
< 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n
    while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates

 the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n   var index = lastIndex\n   if
(index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator =
get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index

 of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n *
\n * @sample samples.collections.Collections.Aggregates.reduceRight\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {\n   var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator =
get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n
  }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull]

 instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRight\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {\n   var index =
lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var
accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index),
accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last

element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws

an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]

from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n

    --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting

with the last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n

 * to each element with its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n

accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator

value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an
element, the element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduceRightIndexedOrNull(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort? {\n   var
index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes

an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt):
UInt? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index
>= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) ->
ULong): ULong? {\n   var index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n
while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return
accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic

inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) -> UByte): UByte? {\n   var index =
lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) ->
UShort): UShort? {\n   var

index = lastIndex\n   if (index < 0) return null\n   var accumulator = get(index--)\n   while (index >= 0) {\n
accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param

[operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n

    val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n   if (isEmpty())
 return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.runningFold(initial: R, operation: (acc: R,
 UByte) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.runningFold(initial:
 R, operation: (acc: R, UShort) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (element in this) {\n   accumulator = operation(accumulator, element)\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun <R> UIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation

values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n   if (isEmpty()) return listOf(initial)\n   val result = ArrayList<R>(size + 1).apply { add(initial) }\n   var accumulator = initial\n   for (index in indices) {\n   accumulator = operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<UInt>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<ULong>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n
 * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
 */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<UByte>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(accumulator, this[index])\n
     result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
 */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<UShort>(size).apply { add(accumulator) }\n   for (index in 1 until size)
 {\n   accumulator = operation(accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
 */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n   if (isEmpty()) return
 emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<UInt>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
 */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun ULongArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {\n   if (isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<ULong>(size).apply { add(accumulator) }\n   for (index in 1 until size) {\n   accumulator =

operation(index, accumulator, this[index])\n   result.add(accumulator)\n   }\n   return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with the first element of this
array.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element,
current accumulator value\n * and the element itself, and calculates the next accumulator
 value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.runningReduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): List<UByte> {\n   if
(isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<UByte>(size).apply {
add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n
     result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n
 * @param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.runningReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): List<UShort> {\n   if
(isEmpty()) return emptyList()\n   var accumulator = this[0]\n   val result = ArrayList<UShort>(size).apply {
add(accumulator) }\n   for (index in 1 until size) {\n   accumulator = operation(index, accumulator, this[index])\n
     result.add(accumulator)\n   }\n   return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
 function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R):
List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current
accumulator
 value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R):
List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic

inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n   return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> R): List<R> {\n   return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince

= \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumBy(selector: (ULong) -> UInt): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince

= \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumBy(selector: (UByte) -> UInt): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumBy(selector: (UShort) -> UInt): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince

= \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumByDouble(selector: (UInt) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumByDouble(selector: (ULong) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince

= \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumByDouble(selector: (UByte) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@Deprecated(\"Use sumOf instead.\", ReplaceWith(\"this.sumOf(selector)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumByDouble(selector: (UShort) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

inline fun UIntArray.sumOf(selector: (UInt) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:

(ULong) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return

 sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:

(UByte) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfDouble\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:

 (UShort) -> Double): Double {\n   var sum: Double = 0.toDouble()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return

sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun ULongArray.sumOf(selector: (ULong) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:

(UByte) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfInt\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

 inline fun UShortArray.sumOf(selector: (UShort) -> Int): Int {\n   var sum: Int = 0.toInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt)

-> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced

 by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")

\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element

 in this) {\n   sum += selector(element)\n   }\n   return sum}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.4\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfLong\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> Long): Long {\n   var sum: Long = 0.toLong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic

 inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic

 inline fun UByteArray.sumOf(selector: (UByte) -> UInt): UInt {\n   var sum: UInt = 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {\n   var sum: UInt =

 0.toUInt()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\ ")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli neOnly\npublic

 inline fun ULongArray.sumOf(selector: (ULong) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\ ")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli neOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)   }\n   return sum\n}\n\n/**\n * Returns the sum of all values

 produced by [selector] function applied to each element in the array.\n

*/\n@SinceKotlin(\"1.5\")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution ByLambdaReturnType\n@Suppress(\"INAPPLICABLE_JVM_NAME\")\n@kotlin.jvm.JvmName(\"sumOfULong\ ")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli neOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> ULong): ULong {\n   var sum: ULong = 0.toULong()\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {\n   return zip(other) { t1, t2 ->

 t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n

 * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UIntArray.zip(other: Array<out R>, transform: (a: UInt, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V>

ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n

 * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n

  val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Iterable<R>): List<Pair<UInt, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Iterable<R>): List<Pair<ULong, R>> {\n

  return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and

 the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

 */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other)

{\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Iterable<R>,

 transform: (a: UByte, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n   val arraySize = size\n   val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n   var i = 0\n   for (element in

 other) {\n   if (i >= arraySize) break\n   list.add(transform(this[i++], element))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray): List<Pair<UInt, UInt>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray): List<Pair<ULong, ULong>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns

 a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray): List<Pair<UByte, UByte>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray): List<Pair<UShort, UShort>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned

list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n   val size = minOf(size,
other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n
}\n   return list\n}\n\n/**\n * Returns a list

 of values built from the elements of `this` array and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n *
@sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n   val size = minOf(size,
other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n
}\n   return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*/\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Array<out UInt>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum
+= element\n   }\n   return sum\n}\n\n/**\n
 * Returns the sum of all elements in the array.\n
*/\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this)
{\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*/\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n
sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n
*/\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out UShort>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n
sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all
 elements in the array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sum(): UInt {\n   return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the
array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sum(): ULong {\n   return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in
the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.sum(): UInt {\n   return sumOf { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the
array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sum(): UInt {\n   return sumOf { it.toUInt() }\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed
 by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UCollectionsKt\")\n\npackage
kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of UByte containing all of the
elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UByte>.toUByteArray(): UByteArray {\n   val result = UByteArray(size)\n   var index = 0\n   for
(element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of UInt containing
all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UInt>.toUIntArray(): UIntArray {\n   val result = UIntArray(size)\n
    var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an
array of ULong containing all of the elements of this collection.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<ULong>.toULongArray(): ULongArray {\n   val result = ULongArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of UShort containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray(): UShortArray {\n   val result = UShortArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<UInt>.sum():

UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Iterable<UShort>.sum(): UInt {\n

  var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UComparisonsKt\")\n\npackage kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\nimport kotlin.random.*\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UInt, b: UInt): UInt {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: ULong, b: ULong): ULong {\n   return

 if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UByte, b: UByte): UByte {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun maxOf(a: UShort, b: UShort): UShort {\n   return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UInt, vararg other: UInt): UInt {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n   return max\n}\n\n/**\n * Returns the greater of the given values.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, vararg other: ULong): ULong {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n   return max\n}\n\n/**\n * Returns the greater of the

 given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UByte, vararg other: UByte): UByte {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n   return max\n}\n\n/**\n * Returns the greater of the given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UShort, vararg other: UShort): UShort {\n   var max = a\n   for (e in other) max = maxOf(max, e)\n return max\n}\n\n/**\n * Returns the smaller of two values.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UInt, b: UInt): UInt {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: ULong, b: ULong): ULong {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic

 fun minOf(a: UByte, b: UByte): UByte {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UShort, b: UShort): UShort {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three values.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n   return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n   return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UByte, b: UByte,

 c: UByte): UByte {\n   return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n   return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UInt, vararg other: UInt): UInt {\n   var min = a\n   for (e in other) min = minOf(min, e)\n   return min\n}\n\n/**\n * Returns the smaller of the given values.\n

*/\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: ULong, vararg other: ULong): ULong {\n   var min = a\n   for (e in other) min = minOf(min, e)\n   return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte, vararg other: UByte): UByte {\n   var min = a\n   for (e

 in other) min = minOf(min, e)\n   return min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UShort, vararg other: UShort): UShort {\n   var min = a\n   for (e in other) min = minOf(min, e)\n   return min\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"URangesKt\")\n\npackage kotlin.ranges\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic

 inline fun UIntRange.random(): UInt {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.random(): ULong {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UIntRange.random(random: Random): UInt {\n   try {\n   return random.nextUInt(this)\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range

 is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULongRange.random(random: Random): ULong {\n   try {\n   return random.nextULong(this)\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UIntRange.randomOrNull(): UInt? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.randomOrNull(): ULong? {\n   return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the specified

 source of randomness, or `null` if this range is empty.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\npublic fun UIntRange.randomOrNull(random: Random): UInt? {\n   if (isEmpty())\n   return null\n   return random.nextUInt(this)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness, or `null` if this range is empty.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\npublic fun ULongRange.randomOrNull(random: Random): ULong? {\n   if (isEmpty())\n   return null\n   return random.nextULong(this)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntRange.contains(element: UInt?): Boolean

 {\n   return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongRange.contains(element: ULong?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun UIntRange.contains(value: UByte): Boolean {\n   return contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun ULongRange.contains(value: UByte): Boolean {\n   return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic

 operator fun ULongRange.contains(value: UInt): Boolean {\n   return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun UIntRange.contains(value: ULong): Boolean {\n   return (value shr UInt.SIZE_BITS) == 0uL && contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun

UIntRange.contains(value: UShort): Boolean {\n   return contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic operator fun ULongRange.contains(value: UShort): Boolean {\n   return contains(value.toULong())\n}\n\n/**\n * Returns a progression
 from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UByte.downTo(to: UByte): UIntProgression {\n   return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UInt.downTo(to: UInt): UIntProgression {\n   return UIntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the
 step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun ULong.downTo(to: ULong): ULongProgression {\n   return ULongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UShort.downTo(to: UShort): UIntProgression {\n   return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
 fun UIntProgression.reversed(): UIntProgression {\n   return UIntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULongProgression.reversed(): ULongProgression {\n   return ULongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UIntProgression.step(step: Int): UIntProgression {\n   checkStepIsPositive(step > 0, step)\n   return UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
 infix fun ULongProgression.step(step: Long): ULongProgression {\n   checkStepIsPositive(step > 0, step)\n   return ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UByte.until(to: UByte): UIntRange {\n   if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n   return this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UInt.until(to: UInt): UIntRange {\n   if (to <= UInt.MIN_VALUE)
 return UIntRange.EMPTY\n   return this .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned

range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun ULong.until(to: ULong): ULongRange {\n   if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n   return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun UShort.until(to: UShort): UIntRange {\n   if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n   return this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n

 * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UInt.coerceAtLeast(minimumValue: UInt): UInt {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULong.coerceAtLeast(minimumValue: ULong): ULong {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or

 equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UByte.coerceAtLeast(minimumValue: UByte): UByte {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UShort.coerceAtLeast(minimumValue: UShort): UShort {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue]

 otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UInt.coerceAtMost(maximumValue: UInt): UInt {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULong.coerceAtMost(maximumValue: ULong): ULong {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n

 */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UShort.coerceAtMost(maximumValue: UShort): UShort {\n   return if (this > maximumValue) maximumValue

else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n

 */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this}\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n

 */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n   if (minimumValue

 > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this}\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n

 */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this

 > maximumValue) return maximumValue\n   return this}\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n

 */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this}\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is

 less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n

 */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun UInt.coerceIn(range: ClosedRange<UInt>): UInt {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<UInt>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n

 */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic

 fun ULong.coerceIn(range: ClosedRange<ULong>): ULong {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<ULong>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot

coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"USequencesKt\")\n\npackage kotlin.sequences\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n

*/\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Sequence<UInt>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n

*/\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Sequence<ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n

*/\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Sequence<UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n

/\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Sequence<UShort>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\npublic expect open class Error : Throwable {\n   constructor()\n   constructor(message: String?)\n   constructor(message: String?, cause: Throwable?)\n   constructor(cause: Throwable?)\n}\n\npublic expect open class Exception : Throwable {\n   constructor()\n   constructor(message: String?)\n   constructor(message: String?,

 cause: Throwable?)\n   constructor(cause: Throwable?)\n}\n\npublic expect open class RuntimeException : Exception {\n   constructor()\n   constructor(message: String?)\n   constructor(message: String?, cause: Throwable?)\n   constructor(cause: Throwable?)\n}\n\npublic expect open class IllegalArgumentException : RuntimeException {\n   constructor()\n   constructor(message: String?)\n   constructor(message: String?, cause: Throwable?)\n   constructor(cause: Throwable?)\n}\n\npublic expect open class IllegalStateException : RuntimeException {\n   constructor()\n   constructor(message: String?)\n   constructor(message: String?, cause: Throwable?)\n   constructor(cause: Throwable?)\n}\n\npublic expect open class IndexOutOfBoundsException : RuntimeException {\n   constructor()\n   constructor(message: String?)\n}\n\npublic expect open class ConcurrentModificationException : RuntimeException {\n   constructor()\n   constructor(message: String?)\n   @Deprecated(\"The constructor

 is not supported on all platforms and will be removed from kotlin-stdlib-common soon.\", level = DeprecationLevel.ERROR)\n   constructor(message: String?, cause: Throwable?)\n   @Deprecated(\"The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.\", level = DeprecationLevel.ERROR)\n   constructor(cause: Throwable?)\n}\n\npublic expect open class UnsupportedOperationException : RuntimeException {\n   constructor()\n   constructor(message: String?)\n   constructor(message: String?, cause: Throwable?)\n   constructor(cause: Throwable?)\n}\n\npublic expect open class NumberFormatException : IllegalArgumentException {\n   constructor()\n   constructor(message: String?)\n}\n\npublic expect open class NullPointerException : RuntimeException {\n   constructor()\n   constructor(message: String?)\n}\n\npublic expect open class ClassCastException : RuntimeException {\n   constructor()\n   constructor(message: String?)\n}\n\npublic

expect open class AssertionError : Error {\n   constructor()\n   constructor(message: Any?)\n}\n\n\npublic expect open class NoSuchElementException : RuntimeException {\n   constructor()\n   constructor(message: String?)\n}\n\n\n@SinceKotlin(\"1.3\")\npublic expect open class ArithmeticException : RuntimeException {\n   constructor()\n   constructor(message: String?)\n}\n\n\n@Deprecated(\"This exception type is not supposed to be thrown or caught in common code and will be removed from kotlin-stdlib-common soon.\", level = DeprecationLevel.ERROR)\npublic expect open class NoWhenBranchMatchedException : RuntimeException {\n   constructor()\n   constructor(message: String?)\n   constructor(message: String?, cause: Throwable?)\n   constructor(cause: Throwable?)\n}\n\n\n@Deprecated(\"This exception type is not supposed to be thrown or caught in common code and will be removed from kotlin-stdlib-common soon.\", level = DeprecationLevel.ERROR)\npublic expect class UninitializedPropertyAccessException

: RuntimeException {\n   constructor()\n   constructor(message: String?)\n   constructor(message: String?, cause: Throwable?)\n   constructor(cause: Throwable?)\n}\n\n/**\n * Thrown after invocation of a function or property that was expected to return `Nothing`, but returned something instead.\n *\n@SinceKotlin(\"1.4\")\n@PublishedApi\ninternal class KotlinNothingValueException : RuntimeException {\n   constructor() : super()\n   constructor(message: String?) : super(message)\n   constructor(message: String?, cause: Throwable?) : super(message, cause)\n   constructor(cause: Throwable?) : super(cause)\n}\n\n\n/**\n * Returns the detailed description of this throwable with its stack trace.\n *\n * The detailed description includes:\n * - the short description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n

 * - the detailed description of each throwable in the [Throwable.cause] chain.\n *\n@SinceKotlin(\"1.4\")\npublic expect fun Throwable.stackTraceToString(): String\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString] of this throwable to the standard output or standard error output.\n *\n@SinceKotlin(\"1.4\")\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")\npublic expect fun Throwable.printStackTrace(): Unit\n\n/**\n * When supported by the platform, adds the specified exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n *\n@SinceKotlin(\"1.4\")\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")\npublic expect fun Throwable.addSuppressed(exception: Throwable)\n\n/**\n * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n *\n * The list can be empty:\n * - if no exceptions were suppressed;\n * - if the platform doesn't support suppressed exceptions;\n * - if this [Throwable] instance has

 disabled the suppression.\n *\n@SinceKotlin(\"1.4\")\npublic expect val Throwable.suppressedExceptions: List<Throwable>\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * Gives a declaration (a function, a property or a class) specific name in JavaScript.\n *\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\n@OptionalExpectation\npublic expect annotation class JsName(val name: String)\n\n/**\n * Marks experimental JS export annotations.\n *\n * Note that behavior of these annotations will likely be changed in the future.\n *\n * Usages of such annotations will be reported as warnings unless an explicit opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalJsExport::class)`,\n * or with the `-opt-in=kotlin.js.ExperimentalJsExport`

 compiler option is given.\n *\n@RequiresOptIn(level = RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.4\")\npublic annotation class ExperimentalJsExport\n\n/**\n * Exports top-level declaration on JS platform.\n *\n * Compiled module exposes declarations that are marked with this annotation without name mangling.\n *\n * This annotation can be applied to either files or top-level declarations.\n *\n * It is currently prohibited to export the following kinds of declarations:\n *\n *   * `expect` declarations\n *   * inline functions with reified type parameters\n *   * suspend functions\n *   * secondary constructors without `@JsName`\n *   * extension properties\n *   * enum classes\n *   * annotation classes\n *\n * Signatures of exported declarations must only contain \"exportable\" types:\n *\n *   * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`,

`Double`\n * * `BooleanArray`,
 `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n * * `Array<exportable-type>`\n * *
Function types with exportable parameters and return types\n * * `external` or `@JsExport` classes and interfaces\n
* * Nullable counterparts of types above\n * * Unit return type. Must not be nullable\n *\n * This annotation is
experimental, meaning that restrictions mentioned above are subject to change.\n
*/\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY,
FUNCTION, FILE)\n@SinceKotlin(\"1.4\")\n@OptionalExpectation\npublic expect annotation class
JsExport()","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.io\n\n\n/** Prints the line separator to the standard output stream. */\npublic expect fun
println()\n\n/** Prints the given [message]
 and the line separator to the standard output stream. */\npublic expect fun println(message: Any?)\n\n/** Prints the
given [message] to the standard output stream. */\npublic expect fun print(message: Any?)\n\n/**\n * Reads a line
of input from the standard input stream and returns it,\n * or throws a [RuntimeException] if EOF has already been
reached when [readln] is called.\n *\n * LF or CRLF is treated as the line terminator. Line terminator is not included
in the returned string.\n *\n * Currently this function is not supported in Kotlin/JS and throws
[UnsupportedOperationException].\n */\n@SinceKotlin(\"1.6\")\npublic expect fun readln(): String\n\n/**\n *
Reads a line of input from the standard input stream and returns it,\n * or return `null` if EOF has already been
reached when [readlnOrNull] is called.\n *\n * LF or CRLF is treated as the line terminator. Line terminator is not
included in the returned string.\n *\n * Currently this function is not supported in Kotlin/JS and throws
 [UnsupportedOperationException].\n */\n@SinceKotlin(\"1.6\")\npublic expect fun readlnOrNull():
String?\n\ninternal class ReadAfterEOFException(message: String?) : RuntimeException(message)\n\n\ninternal
expect interface Serializable\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport kotlin.internal.PlatformDependent\n\n/**\n *
Classes that inherit from this interface can be represented as a sequence of elements that can\n * be iterated over.\n *
@param T the type of element being iterated over. The iterator is covariant in its element type.\n */\npublic interface
Iterable<out T> {\n   /**\n   * Returns an iterator over the elements of this object.\n   */\n   public operator fun
iterator(): Iterator<T>\n}\n\n/**\n * Classes that inherit from this interface can be represented
 as a sequence of elements that can\n * be iterated over and that supports removing elements during iteration.\n *
@param T the type of element being iterated over. The mutable iterator is invariant in its element type.\n */\npublic
interface MutableIterable<out T> : Iterable<T> {\n   /**\n   * Returns an iterator over the elements of this
sequence that supports removing elements during iteration.\n   */\n   override fun iterator():
MutableIterator<T>\n}\n\n/**\n * A generic collection of elements. Methods in this interface support only read-only
access to the collection;\n * read/write access is supported through the [MutableCollection] interface.\n * @param E
the type of elements contained in the collection. The collection is covariant in its element type.\n */\npublic interface
Collection<out E> : Iterable<E> {\n   // Query Operations\n   /**\n   * Returns the size of the collection.\n   */\n
public val size: Int\n\n   /**\n   * Returns `true` if the collection is
 empty (contains no elements), `false` otherwise.\n   */\n   public fun isEmpty(): Boolean\n\n   /**\n   * Checks if
the specified element is contained in this collection.\n   */\n   public operator fun contains(element:
@UnsafeVariance E): Boolean\n\n   override fun iterator(): Iterator<E>\n\n   // Bulk Operations\n   /**\n   *
Checks if all elements in the specified collection are contained in this collection.\n   */\n   public fun
containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic collection of elements
that supports adding and removing elements.\n *\n * @param E the type of elements contained in the collection. The
mutable collection is invariant in its element type.\n */\npublic interface MutableCollection<E> : Collection<E>,
MutableIterable<E> {\n   // Query Operations\n   override fun iterator(): MutableIterator<E>\n\n   // Modification
Operations\n   /**\n   * Adds the specified element to the collection.\n   *\n

* @return `true` if the element has been added, `false` if the collection does not support duplicates\n   * and the element is already contained in the collection.\n   */\n   public fun add(element: E): Boolean\n\n   /**\n   * Removes a single instance of the specified element from this\n   * collection, if it is present.\n   *\n   * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\n   */\n   public fun remove(element: E): Boolean\n\n   // Bulk Modification Operations\n   /**\n   * Adds all of the elements of the specified collection to this collection.\n   *\n   * @return `true` if any of the specified elements was added to the collection, `false` if the collection was not modified.\n   */\n   public fun addAll(elements: Collection<E>): Boolean\n\n   /**\n   * Removes all of this collection's elements that are also contained in the specified collection.\n   *\n   * @return `true` if any of
 the specified elements was removed from the collection, `false` if the collection was not modified.\n   */\n   public fun removeAll(elements: Collection<E>): Boolean\n\n   /**\n   * Retains only the elements in this collection that are contained in the specified collection.\n   *\n   * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\n   */\n   public fun retainAll(elements: Collection<E>): Boolean\n\n   /**\n   * Removes all elements from this collection.\n   */\n   public fun clear(): Unit\n}\n\n/**\n * A generic ordered collection of elements. Methods in this interface support only read-only access to the list;\n * read/write access is supported through the [MutableList] interface.\n * @param E the type of elements contained in the list. The list is covariant in its element type.\n */\npublic interface List<out E> : Collection<E> {\n   // Query Operations\n\n   override val size: Int\n   override fun isEmpty():
 Boolean\n   override fun contains(element: @UnsafeVariance E): Boolean\n   override fun iterator(): Iterator<E>\n\n   // Bulk Operations\n   override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n   // Positional Access Operations\n   /**\n   * Returns the element at the specified index in the list.\n   */\n   public operator fun get(index: Int): E\n\n   // Search Operations\n   /**\n   * Returns the index of the first occurrence of the specified element in the list, or -1 if the specified\n   * element is not contained in the list.\n   */\n   public fun indexOf(element: @UnsafeVariance E): Int\n\n   /**\n   * Returns the index of the last occurrence of the specified element in the list, or -1 if the specified\n   * element is not contained in the list.\n   */\n   public fun lastIndexOf(element: @UnsafeVariance E): Int\n\n   // List Iterators\n   /**\n   * Returns a list iterator over the elements in this list (in proper sequence).\n
    */\n   public fun listIterator(): ListIterator<E>\n\n   /**\n   * Returns a list iterator over the elements in this list (in proper sequence), starting at the specified [index].\n   */\n   public fun listIterator(index: Int): ListIterator<E>\n\n   // View\n   /**\n   * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\n   * The returned list is backed by this list, so non-structural changes in the returned list are reflected in this list, and vice-versa.\n   *\n   * Structural changes in the base list make the behavior of the view undefined.\n   */\n   public fun subList(fromIndex: Int, toIndex: Int): List<E>\n}\n\n/**\n * A generic ordered collection of elements that supports adding and removing elements.\n * @param E the type of elements contained in the list. The mutable list is invariant in its element type.\n */\npublic interface MutableList<E> : List<E>, MutableCollection<E> {\n
  // Modification Operations\n   /**\n   * Adds the specified element to the end of this list.\n   *\n   * @return `true` because the list is always modified as the result of this operation.\n   */\n   override fun add(element: E): Boolean\n\n   override fun remove(element: E): Boolean\n\n   // Bulk Modification Operations\n   /**\n   * Adds all of the elements of the specified collection to the end of this list.\n   *\n   * The elements are appended in the order they appear in the [elements] collection.\n   *\n   * @return `true` if the list was changed as the result of the operation.\n   */\n   override fun addAll(elements: Collection<E>): Boolean\n\n   /**\n   * Inserts all of the elements of the specified collection [elements] into this list at the specified [index].\n   *\n   * @return `true` if the list was changed as the result of the operation.\n   */\n   public fun addAll(index: Int, elements: Collection<E>): Boolean\n\n   override fun removeAll(elements:
 Collection<E>): Boolean\n   override fun retainAll(elements: Collection<E>): Boolean\n   override fun clear(): Unit\n\n   // Positional Access Operations\n   /**\n   * Replaces the element at the specified position in this list with the specified element.\n   *\n   * @return the element previously at the specified position.\n   */\n   public

operator fun set(index: Int, element: E): E\n\n   /**\n   * Inserts an element into the list at the specified [index].\n *\n   public fun add(index: Int, element: E): Unit\n\n   /**\n   * Removes an element at the specified [index] from the list.\n   *\n   * @return the element that has been removed.\n   */\n   public fun removeAt(index: Int): E\n\n // List Iterators\n   override fun listIterator(): MutableListIterator<E>\n\n   override fun listIterator(index: Int): MutableListIterator<E>\n\n   // View\n   override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\n}\n\n/**\n * A generic

 unordered collection of elements that does not support duplicate elements.\n * Methods in this interface support only read-only access to the set;\n * read/write access is supported through the [MutableSet] interface.\n * @param E the type of elements contained in the set. The set is covariant in its element type.\n */\npublic interface Set<out E> : Collection<E> {\n   // Query Operations\n\n   override val size: Int\n   override fun isEmpty(): Boolean\n   override fun contains(element: @UnsafeVariance E): Boolean\n   override fun iterator(): Iterator<E>\n\n   // Bulk Operations\n   override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic unordered collection of elements that does not support duplicate elements, and supports\n * adding and removing elements.\n * @param E the type of elements contained in the set. The mutable set is invariant in its element type.\n */\npublic interface MutableSet<E> : Set<E>, MutableCollection<E> {\n

  // Query Operations\n   override fun iterator(): MutableIterator<E>\n\n   // Modification Operations\n\n   /**\n   * Adds the specified element to the set.\n   *\n   * @return `true` if the element has been added, `false` if the element is already contained in the set.\n   */\n   override fun add(element: E): Boolean\n\n   override fun remove(element: E): Boolean\n\n   // Bulk Modification Operations\n\n   override fun addAll(elements: Collection<E>): Boolean\n   override fun removeAll(elements: Collection<E>): Boolean\n   override fun retainAll(elements: Collection<E>): Boolean\n   override fun clear(): Unit\n}\n\n/**\n * A collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\n * Methods in this interface support only read-only access to the map; read-write access is supported through\n * the [MutableMap] interface.\n * @param

 K the type of map keys. The map is invariant in its key type, as it\n *   can accept key as a parameter (of [containsKey] for example) and return it in [keys] set.\n * @param V the type of map values. The map is covariant in its value type.\n */\npublic interface Map<K, out V> {\n   // Query Operations\n   /**\n   * Returns the number of key/value pairs in the map.\n   */\n   public val size: Int\n\n   /**\n   * Returns `true` if the map is empty (contains no elements), `false` otherwise.\n   */\n   public fun isEmpty(): Boolean\n\n   /**\n   * Returns `true` if the map contains the specified [key].\n   */\n   public fun containsKey(key: K): Boolean\n\n   /**\n   * Returns `true` if the map maps one or more keys to the specified [value].\n   */\n   public fun containsValue(value: @UnsafeVariance V): Boolean\n\n   /**\n   * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n   */\n   public operator

 fun get(key: K): V?\n\n   /**\n   * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the map.\n   *\n   * @since JDK 1.8\n   */\n   @SinceKotlin(\"1.1\")\n   @PlatformDependent\n   public fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\n   // See default implementation in JDK sources\n   throw NotImplementedError()\n   }\n\n   // Views\n   /**\n   * Returns a read-only [Set] of all keys in this map.\n   */\n   public val keys: Set<K>\n\n   /**\n   * Returns a read-only [Collection] of all values in this map. Note that this collection may contain duplicate values.\n   */\n   public val values: Collection<V>\n\n   /**\n   * Returns a read-only [Set] of all key/value pairs in this map.\n   */\n   public val entries: Set<Map.Entry<K, V>>\n\n   /**\n   * Represents a key/value pair held by a [Map].\n   */\n   public interface Entry<out K, out V> {\n   /**\n

   * Returns the key of this key/value pair.\n   */\n   public val key: K\n\n   /**\n   * Returns the value of this key/value pair.\n   */\n   public val value: V\n   }\n}\n\n/**\n * A modifiable collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\n * @param K the type of map keys. The map is invariant in its key type.\n * @param V the type of map values. The mutable map is invariant in its value type.\n */\npublic interface MutableMap<K, V> : Map<K, V> {\n   // Modification Operations\n   /**\n   * Associates the specified

[value] with the specified [key] in the map.\n   *\n   * @return the previous value associated with the key, or `null` if the key was not present in the map.\n   */\n   public fun put(key: K, value: V): V?\n\n   /**\n   * Removes the specified key and its corresponding value from

this map.\n   *\n   * @return the previous value associated with the key, or `null` if the key was not present in the map.\n   */\n   public fun remove(key: K): V?\n\n   /**\n   * Removes the entry for the specified key only if it is mapped to the specified value.\n   *\n   * @return true if entry was removed\n   */\n   @SinceKotlin(\"1.1\")\n   @PlatformDependent\n   public fun remove(key: K, value: V): Boolean {\n   // See default implementation in JDK sources\n   return true\n   }\n\n   // Bulk Modification Operations\n   /**\n   * Updates this map with key/value pairs from the specified map [from].\n   */\n   public fun putAll(from: Map<out K, V>): Unit\n\n   /**\n   * Removes all elements from this map.\n   */\n   public fun clear(): Unit\n\n   // Views\n   /**\n   * Returns a [MutableSet] of all keys in this map.\n   */\n   override val keys: MutableSet<K>\n\n   /**\n   * Returns a [MutableCollection] of all values in this map.

Note that this collection may contain duplicate values.\n   */\n   override val values: MutableCollection<V>\n\n   /**\n   * Returns a [MutableSet] of all key/value pairs in this map.\n   */\n   override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n\n   /**\n   * Represents a key/value pair held by a [MutableMap].\n   */\n   public interface MutableEntry<K, V> : Map.Entry<K, V> {\n   /**\n   * Changes the value associated with the key of this entry.\n   *\n   * @return the previous value corresponding to the key.\n   */\n   public fun setValue(newValue: V): V\n   }\n}\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/** An iterator over a sequence of values of type `Byte`. */\npublic abstract

class ByteIterator : Iterator<Byte> {\n   override final fun next() = nextByte()\n\n   /** Returns the next value in the sequence without boxing. */\n   public abstract fun nextByte(): Byte\n}\n\n/** An iterator over a sequence of values of type `Char`. */\npublic abstract class CharIterator : Iterator<Char> {\n   override final fun next() = nextChar()\n\n   /** Returns the next value in the sequence without boxing. */\n   public abstract fun nextChar(): Char\n}\n\n/** An iterator over a sequence of values of type `Short`. */\npublic abstract class ShortIterator : Iterator<Short> {\n   override final fun next() = nextShort()\n\n   /** Returns the next value in the sequence without boxing. */\n   public abstract fun nextShort(): Short\n}\n\n/** An iterator over a sequence of values of type `Int`. */\npublic abstract class IntIterator : Iterator<Int> {\n   override final fun next() = nextInt()\n\n   /** Returns the next value in the sequence without boxing. */\n   public

abstract fun nextInt(): Int\n}\n\n/** An iterator over a sequence of values of type `Long`. */\npublic abstract class LongIterator : Iterator<Long> {\n   override final fun next() = nextLong()\n\n   /** Returns the next value in the sequence without boxing. */\n   public abstract fun nextLong(): Long\n}\n\n/** An iterator over a sequence of values of type `Float`. */\npublic abstract class FloatIterator : Iterator<Float> {\n   override final fun next() = nextFloat()\n\n   /** Returns the next value in the sequence without boxing. */\n   public abstract fun nextFloat(): Float\n}\n\n/** An iterator over a sequence of values of type `Double`. */\npublic abstract class DoubleIterator : Iterator<Double> {\n   override final fun next() = nextDouble()\n\n   /** Returns the next value in the sequence without boxing. */\n   public abstract fun nextDouble(): Double\n}\n\n/** An iterator over a sequence of values of type `Boolean`. */\npublic abstract class BooleanIterator : Iterator<Boolean>

{\n   override final fun next() = nextBoolean()\n\n   /** Returns the next value in the sequence without boxing. */\n   public abstract fun nextBoolean(): Boolean\n}\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n/**\n * An iterator over a progression of values of type `Char`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal class CharProgressionIterator(first: Char, last: Char, val step: Int) : CharIterator() {\n   private val finalElement: Int = last.code\n   private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n   private var next: Int = if (hasNext) first.code else finalElement\n\n   override fun hasNext(): Boolean = hasNext\n\n   override fun nextChar(): Char {\n

val value = next\n   if (value == finalElement) {\n   if (!hasNext) throw kotlin.NoSuchElementException()\n   hasNext = false\n   }\n   else {\n   next += step\n   }\n   return value.toChar()\n   }\n}\n\n/**\n * An iterator over a progression of values of type `Int`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {\n   private val finalElement: Int = last\n   private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n   private var next: Int = if (hasNext) first else finalElement\n\n   override fun hasNext(): Boolean = hasNext\n\n   override fun nextInt(): Int {\n   val value = next\n   if (value == finalElement) {\n   if (!hasNext) throw kotlin.NoSuchElementException()\n   hasNext = false\n   }\n   else {\n   next += step\n   }\n   return value\n   }\n}\n\n/**\n * An iterator over a progression of values of type `Long`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {\n   private val finalElement: Long = last\n   private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n   private var next: Long = if (hasNext) first else finalElement\n\n   override fun hasNext(): Boolean = hasNext\n\n   override fun nextLong(): Long {\n   val value = next\n   if (value == finalElement) {\n   if (!hasNext) throw kotlin.NoSuchElementException()\n   hasNext = false\n   }\n   else {\n   next += step\n   }\n   return value\n   }\n}\n\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport kotlin.internal.getProgressionLastElement\n\n/**\n * A progression of values of type `Char`.\n */\npublic open class CharProgression\n   internal constructor\n   (\n   start: Char,\n   endInclusive: Char,\n   step: Int\n   ) : Iterable<Char> {\n   init {\n   if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n   if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\n   }\n\n   /**\n   * The first element in the progression.\n   */\n   public val first: Char = start\n\n   /**\n   * The last element in the progression.\n   */\n   public val last: Char = getProgressionLastElement(start.code, endInclusive.code, step).toChar()\n\n   /**\n   * The step of the progression.\n   */\n   public val step: Int = step\n\n   override fun iterator(): CharIterator = CharProgressionIterator(first, last, step)\n\n   /**\n   * Checks if the progression is empty.\n   *\n   * Progression with a positive step is empty if its first element is greater than the last element.\n   * Progression with a negative step is empty if its first element is less than the last element.\n   */\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n   override fun equals(other: Any?): Boolean =\n   other is CharProgression && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last && step == other.step)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * (31 * first.code + last.code) + step)\n\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n   companion object {\n   /**\n   * Creates CharProgression within the specified bounds of a closed range.\n   *\n   * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n   * In order to go backwards the [step] must be negative.\n   *\n   * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n   */\n   public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression = CharProgression(rangeStart, rangeEnd, step)\n   }\n}\n\n/**\n * A progression of values of type `Int`.\n */\npublic open class IntProgression\n   internal constructor\n   (\n   start: Int,\n   endInclusive: Int,\n   step: Int\n   ) : Iterable<Int> {\n   init {\n   if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n   if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\n   }\n\n   /**\n   * The first element in the progression.\n   */\n   public val first: Int = start\n\n   /**\n   * The last element in the progression.\n   */\n   public val last: Int = getProgressionLastElement(start, endInclusive, step)\n\n   /**\n   * The step of the progression.\n   */\n   public val step: Int = step\n\n   override fun iterator(): IntIterator =

IntProgressionIterator(first, last, step)\n\n   /**\n   * Checks if the progression is empty.\n   *\n   * Progression with a positive step is empty if its first element is greater than the last element.\n   * Progression with a negative step is empty if its first element is less than the last element.\n   */\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n   override fun equals(other: Any?): Boolean =\n   other is IntProgression && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last && step == other.step)\n\n   override fun hashCode():

Int =\n   if (isEmpty()) -1 else (31 * (31 * first + last) + step)\n\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n   companion object {\n   /**\n   * Creates IntProgression within the specified bounds of a closed range.\n   *\n   * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n   * In order to go backwards the [step] must be negative.\n   *\n   * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n   */\n   public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)\n   }\n}\n\n/**\n * A progression of values of type `Long`.\n */\npublic open class LongProgression\n   internal constructor\n   (\n   start: Long,\n   endInclusive: Long,\n

    step: Long\n   ) : Iterable<Long> {\n   init {\n   if (step == 0L) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n   if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on negation.\")\n   }\n\n   /**\n   * The first element in the progression.\n   */\n   public val first: Long = start\n\n   /**\n   * The last element in the progression.\n   */\n   public val last: Long = getProgressionLastElement(start, endInclusive, step)\n\n   /**\n   * The step of the progression.\n   */\n   public val step: Long = step\n\n   override fun iterator(): LongIterator = LongProgressionIterator(first, last, step)\n\n   /**\n   * Checks if the progression is empty.\n   *\n   * Progression with a positive step is empty if its first element is greater than the last element.\n   * Progression with a negative step is empty if its first element is less than the last element.\n

    */\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n   override fun equals(other: Any?): Boolean =\n   other is LongProgression && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last && step == other.step)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\n\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n   companion object {\n   /**\n   * Creates LongProgression within the specified bounds of a closed range.\n   *\n   * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n   * In order to go backwards the [step] must be negative.\n   *\n   * [step] must be greater than `Long.MIN_VALUE`

        and not equal to zero.\n   */\n   public fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)\n   }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.ranges\n\n/**\n * Represents a range of values (for example, numbers or characters).\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\n */\npublic interface ClosedRange<T: Comparable<T>> {\n   /**\n   * The minimum value in the range.\n   */\n   public val start: T\n\n   /**\n   * The maximum value in the range (inclusive).\n   */\n   public val endInclusive: T\n\n   /**\n   * Checks whether the specified [value] belongs to the range.\n   */\n   public operator fun contains(value:

 T): Boolean = value >= start && value <= endInclusive\n\n   /**\n   * Checks whether the range is empty.\n   *\n   * The range is empty if its start value is greater than the end value.\n   */\n   public fun isEmpty(): Boolean = start > endInclusive\n}\n","/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\"

BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin\n\n/**\n * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.\n */\npublic object Unit {\n   override fun toString() = \"kotlin.Unit\"\n}\n","/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.annotation\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * Contains the list of code elements which are the possible annotation targets\n */\npublic enum class AnnotationTarget {\n   /** Class, interface or object, annotation class is also included *\/\n   CLASS,\n   /** Annotation class only *\/\n   ANNOTATION_CLASS,\n   /** Generic type parameter *\/\n   TYPE_PARAMETER,\n   /** Property *\/\n   PROPERTY,\n   /** Field, including property's backing field *\/\n   FIELD,\n   /** Local variable *\/\n   LOCAL_VARIABLE,\n   /** Value parameter of a function or a constructor *\/\n   VALUE_PARAMETER,\n   /** Constructor only (primary or secondary) *\/\n   CONSTRUCTOR,\n   /** Function (constructors are not included) *\/\n   FUNCTION,\n   /** Property getter only *\/\n   PROPERTY_GETTER,\n   /** Property setter only *\/\n   PROPERTY_SETTER,\n   /** Type usage *\/\n   TYPE,\n   /** Any expression *\/\n   EXPRESSION,\n   /** File *\/\n   FILE,\n   /** Type alias *\/\n   @SinceKotlin(\"1.1\")\n   TYPEALIAS\n}\n\n/**\n * Contains the list of possible annotation's retentions.\n *\n * Determines how an annotation is stored in binary output.\n */\npublic enum class AnnotationRetention {\n   /** Annotation isn't stored in binary output *\/\n   SOURCE,\n   /** Annotation is stored in binary output, but invisible for reflection *\/\n   BINARY,\n   /** Annotation is stored in binary output and visible for reflection (default retention) *\/\n   RUNTIME\n}\n\n/**\n * This meta-annotation indicates the kinds of code elements which are possible targets of an annotation.\n *\n * If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following\n * elements:\n * [CLASS], [PROPERTY], [FIELD], [LOCAL_VARIABLE], [VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER], [PROPERTY_SETTER].\n *\n * @property allowedTargets list of allowed annotation targets\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@MustBeDocumented\npublic annotation class Target(vararg val allowedTargets: AnnotationTarget)\n\n/**\n * This meta-annotation determines whether an annotation is stored in binary output and visible for reflection. By default, both are true.\n *\n * @property value necessary annotation retention (RUNTIME, BINARY or SOURCE)\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)\n\n/**\n * This meta-annotation determines that an annotation is applicable twice or more on a single code element\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class Repeatable\n\n/**\n * This meta-annotation determines that an annotation is a part of public API and therefore should be included in the generated\n * documentation for the element to which the annotation is applied.\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class MustBeDocumented\n","/*\n * Copyright 2010-2016 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding type parameter is not used for

unsafe operations such as casts or 'is' checks\n * That means it's completely safe to use generic types as argument for such parameter.\n

*/\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PureReifiable\n\n/**\n * Specifies that the corresponding built-in method exists depending on platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n * method 'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z'

 is defined in JDK (i.e. for major versions >= 8)\n

/\n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PlatformDependent\n","/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n// a mod b (in arithmetical sense)\nprivate fun mod(a: Int, b: Int): Int {\n   val mod = a % b\n   return if (mod >= 0) mod else mod + b\n}\n\nprivate fun mod(a: Long, b: Long): Long {\n   val mod = a % b\n   return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun differenceModulo(a: Int, b: Int, c: Int): Int {\n   return mod(mod(a, c) - mod(b, c), c)\n}\n\nprivate fun differenceModulo(a: Long, b: Long, c: Long): Long {\n   return mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n * Calculates the final element of a bounded

 arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n */\n@PublishedApi\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n\n/**\n

 * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n */\n@PublishedApi\ninternal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n   else -> throw

 kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@JsName(\"arrayIterator\")\ninternal fun arrayIterator(array: dynamic, type: String?) = when (type) {\n   null -> {\n   val arr: Array<dynamic> = array\n   object : Iterator<dynamic> {\n   var index = 0\n   override fun hasNext() = index < arr.size\n   override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException(\"$index\")\n   }\n   }\n   \"BooleanArray\" -> booleanArrayIterator(array)\n   \"ByteArray\" -> byteArrayIterator(array)\n   \"ShortArray\" -> shortArrayIterator(array)\n   \"CharArray\" -> charArrayIterator(array)\n   \"IntArray\" -> intArrayIterator(array)\n   \"LongArray\" -> longArrayIterator(array)\n   \"FloatArray\" -> floatArrayIterator(array)\n

    \"DoubleArray\" -> doubleArrayIterator(array)\n   else -> throw IllegalStateException(\"Unsupported type argument for arrayIterator: $type\")\n}\n\n@JsName(\"booleanArrayIterator\")\ninternal fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator() {\n   var index = 0\n   override fun

hasNext() = index < array.size\n   override fun nextBoolean() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"byteArrayIterator\")\ninternal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextByte() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"shortArrayIterator\")\ninternal fun shortArrayIterator(array: ShortArray) = object : ShortIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextShort()

 = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"charArrayIterator\")\ninternal fun charArrayIterator(array: CharArray) = object : CharIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextChar() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"intArrayIterator\")\ninternal fun intArrayIterator(array: IntArray) = object : IntIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextInt() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"floatArrayIterator\")\ninternal fun floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextFloat() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"doubleArrayIterator\")\ninternal

 fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextDouble() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"longArrayIterator\")\ninternal fun longArrayIterator(array: LongArray) = object : LongIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextLong() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"PropertyMetadata\")\ninternal class PropertyMetadata(@JsName(\"callableName\") val name: String)\n\n@JsName(\"noWhenBranchMatched\")\ninternal fun noWhenBranchMatched(): Nothing = throw NoWhenBranchMatchedException()\n\n@JsName(\"subSequence\")\ninternal fun subSequence(c: CharSequence, startIndex: Int, endIndex: Int): CharSequence {\n   if (c is String) {\n   return c.substring(startIndex, endIndex)\n   } else {\n   return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\n }\n}\n\n@JsName(\"captureStack\")\ninternal fun captureStack(@Suppress(\"UNUSED_PARAMETER\") baseClass: JsClass<in Throwable>, instance: Throwable) {\n   if (js(\"Error\").captureStackTrace) {\n   // Using uncropped stack traces due to KT-37563.\n   // Precise stack traces are implemented in JS IR compiler and stdlib\n   js(\"Error\").captureStackTrace(instance);\n   } else {\n   instance.asDynamic().stack = js(\"new Error()\").stack;\n   }\n}\n\n@JsName(\"newThrowable\")\ninternal fun newThrowable(message: String?, cause: Throwable?): Throwable {\n   val throwable = js(\"new Error()\")\n   throwable.message = if (jsTypeOf(message) == \"undefined\") {\n   if (cause != null) cause.toString() else null\n   } else {\n   message\n   }\n   throwable.cause = cause\n   throwable.name = \"Throwable\"\n   return throwable\n}\n\n@JsName(\"BoxedChar\")\ninternal

 class BoxedChar(val c: Int) : Comparable<Int> {\n   override fun equals(other: Any?): Boolean {\n   return other is BoxedChar && c == other.c\n   }\n\n   override fun hashCode(): Int {\n   return c\n   }\n\n   override fun toString(): String {\n   return js(\"this.c\").unsafeCast<Char>().toString()\n   }\n\n   override fun compareTo(other: Int): Int {\n   return js(\"this.c - other\").unsafeCast<Int>()()\n   }\n\n   @JsName(\"valueOf\")\n   public fun valueOf(): Int {\n   return c\n   }\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun <T> concat(args: Array<T>): T {\n   val typed = js(\"Array\")(args.size)\n   for (i in args.indices) {\n   val arr = args[i]\n   if (arr !is Array<*>) {\n   typed[i] = js(\"[]\").slice.call(arr)\n   } else {\n   typed[i] = arr\n   }\n   }\n   return js(\"[]\").concat.apply(js(\"[]\"), typed);\n}\n\n/** Concat regular Array's and TypedArray's into an Array.\n */\n@PublishedApi\n@JsName(\"arrayConcat\")\n@Suppress(\"UNUSED_PARAMETER\")\ninternal

fun <T> arrayConcat(a: T, b: T): T {\n   return concat(js(\"arguments\"))\n}\n\n/** Concat primitive arrays. Main use: prepare vararg arguments.\n * For compatibility with 1.1.0 the arguments may be a mixture of Array's and TypedArray's.\n *\n * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray) returns a TypedArray, otherwise an Array.\n * If the first argument has the $type$ property (Boolean-, Char-, and LongArray) copy its value to result.$type$.\n * If the first argument is a regular Array without the $type$ property default to arrayConcat.\n

/\n@PublishedApi\n@JsName(\"primitiveArrayConcat\")\n@Suppress(\"UNUSED_PARAMETER\")\ninternal fun <T> primitiveArrayConcat(a: T, b: T): T {\n   val args: Array<T> = js(\"arguments\")\n   if (a is Array<> && a.asDynamic().`$type$` === undefined) {\n   return concat(args)\n   } else {\n   var size = 0\n   for (i in args.indices) {\n   size += args[i].asDynamic().length as Int\n   }\n   val result = js(\"new a.constructor(size)\")\n   kotlin.copyArrayType(a, result)\n   size = 0\n   for (i in args.indices) {\n   val arr = args[i].asDynamic()\n   for (j in 0 until arr.length) {\n   result[size++] = arr[j]\n   }\n   }\n   return result\n   }\n}\n\n@JsName(\"booleanArrayOf\")\ninternal fun booleanArrayOf() = withType(\"BooleanArray\", js(\"[].slice.call(arguments)\"))\n\n@JsName(\"charArrayOf\") // The arguments have to be slice'd here because of Rhino (see KT-16974)\ninternal fun charArrayOf() = withType(\"CharArray\", js(\"new Uint16Array([].slice.call(arguments))\"))\n\n@JsName(\"longArrayOf\")\ninternal fun longArrayOf() = withType(\"LongArray\", js(\"[].slice.call(arguments)\"))\n\n@JsName(\"withType\")\n@kotlin.internal.InlineOnly\ninternal inline fun withType(type: String, array: dynamic):

 dynamic {\n   array.`$type$` = type\n   return array\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Function corresponding to JavaScript's `typeof` operator\n */\n@kotlin.internal.InlineOnly\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline fun jsTypeOf(a: Any?): String = js(\"typeof a\")\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress(\"UNUSED_PARAMETER\", \"NOTHING_TO_INLINE\")\n\npackage kotlin\n\n/**\n * Returns an empty array of the specified type [T].\n */\npublic inline fun <T> emptyArray(): Array<T> = js(\"[]\")\n\n@library\npublic fun <T> arrayOf(vararg elements: T): Array<T> = definedExternally\n\n@library\npublic

 fun doubleArrayOf(vararg elements: Double): DoubleArray = definedExternally\n\n@library\npublic fun floatArrayOf(vararg elements: Float): FloatArray = definedExternally\n\n@library\npublic fun longArrayOf(vararg elements: Long): LongArray = definedExternally\n\n@library\npublic fun intArrayOf(vararg elements: Int): IntArray = definedExternally\n\n@library\npublic fun charArrayOf(vararg elements: Char): CharArray = definedExternally\n\n@library\npublic fun shortArrayOf(vararg elements: Short): ShortArray = definedExternally\n\n@library\npublic fun byteArrayOf(vararg elements: Byte): ByteArray = definedExternally\n\n@library\npublic fun booleanArrayOf(vararg elements: Boolean): BooleanArray = definedExternally\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n */\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses

 the specified initialization function [initializer].\n *\n * The [mode] parameter is ignored. */\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [lock] parameter is ignored.\n */\npublic actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n\ninternal fun fillFrom(src: dynamic, dst: dynamic): dynamic {\n   val srcLen: Int = src.length\n   val dstLen: Int = dst.length\n   var index: Int = 0\n   while (index < srcLen && index < dstLen) dst[index] = src[index++]\n   return dst\n}\n\n\ninternal fun arrayCopyResize(source: dynamic, newSize: Int, defaultValue: Any?): dynamic {\n   val result = source.slice(0, newSize)\n   copyArrayType(source, result)\n   var index: Int = source.length\n   if (newSize > index) {\n   result.length = newSize\n

while (index < newSize) result[index++] = defaultValue\n   }\n   return result\n}\n\ninternal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\n   val result = array.slice()\n   result.length += collection.size\n   copyArrayType(array, result)\n   var index: Int = array.length\n   for (element in collection) result[index++] = element\n   return result\n}\n\ninternal fun <T> fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {\n   var index = startIndex\n   for (element in collection) dst[index++] = element\n   return dst\n}\n\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\n   if (from.`$type$` !== undefined) {\n   to.`$type$` = from.`$type$`\n   }\n}\n\ninternal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js(\"Kotlin\").isType(obj, jsClass)","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Creates a Char with the specified [code].\n *\n * @sample samples.text.Chars.charFromCode\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic actual inline fun Char(code: UShort): Char {\n   return code.toInt().toChar()\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin(\"1.3\")\n@JsName(\"CoroutineImpl\")\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?> {\n   protected var state = 0\n   protected var exceptionState = 0\n   protected var result: Any? = null\n   protected var exception: Throwable? = null\n   protected var finallyPath: Array<Int>? = null\n\n   public override val context: CoroutineContext = resultContinuation.context\n\n   private var intercepted_: Continuation<Any?>? = null\n\n   public fun intercepted(): Continuation<Any?> =\n   intercepted_\n   ?: (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n   .also { intercepted_ = it }\n\n   override fun resumeWith(result: Result<Any?>) {\n   var current = this\n   var currentResult: Any? = result.getOrNull()\n   var currentException: Throwable? = result.exceptionOrNull()\n\n   // This loop unrolls recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n   while (true) {\n   with(current) {\n   val completion = resultContinuation\n\n   // Set result and exception fields in the current continuation\n   if (currentException == null) {\n   this.result = currentResult\n   } else {\n   state = exceptionState\n   exception = currentException\n   }\n\n   try {\n   val outcome = doResume()\n   if (outcome === COROUTINE_SUSPENDED) return\n   currentResult = outcome\n   currentException = null\n   } catch (exception: dynamic) { // Catch all exceptions\n   currentResult = null\n   currentException = exception.unsafeCast<Throwable>()\n   }\n\n   releaseIntercepted() // this state machine instance is terminating\n\n   if (completion is CoroutineImpl) {\n   // unrolling recursion via loop\n   current = completion\n   } else {\n   // top-level completion reached -- invoke and return\n   currentException?.let {\n   completion.resumeWithException(it)\n   } ?: completion.resume(currentResult)\n   return\n   }\n   }\n   }\n   }\n\n   private fun releaseIntercepted() {\n   val intercepted = intercepted_\n   if (intercepted != null && intercepted !== this) {\n   context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n   }\n   this.intercepted_ = CompletedContinuation // just in case\n   }\n\n   protected abstract fun doResume(): Any?\n}\n\ninternal object CompletedContinuation : Continuation<Any?> {\n   override val context: CoroutineContext\n   get() = error(\"This continuation is already complete\")\n\n   override fun resumeWith(result: Result<Any?>) {\n   error(\"This continuation is already complete\")\n   }\n\n   override fun toString(): String = \"This continuation is already complete\"\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress(\"UNCHECKED_CAST\", \"RedundantVisibilityModifier\")\n\npackage kotlin\n\nimport kotlin.contracts.*\nimport

kotlin.internal.InlineOnly\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmInline\nimport kotlin.jvm.JvmName\n\n/**\n * A discriminated union that encapsulates a successful outcome with a value of type [T]\n * or a failure with an arbitrary [Throwable] exception.\n */\n@SinceKotlin(\"1.3\")\n@JvmInline\npublic value class Result<out T> @PublishedApi internal constructor(\n   @PublishedApi\n   internal val value: Any?\n) : Serializable {\n   // discovery\n\n   /**\n   * Returns `true` if this instance represents a successful outcome.\n   * In this case [isFailure] returns `false`.\n   */\n   public val isSuccess: Boolean get() = value !is Failure\n\n   /**\n   * Returns `true` if this instance represents

 a failed outcome.\n   * In this case [isSuccess] returns `false`.\n   */\n   public val isFailure: Boolean get() = value is Failure\n\n   // value & exception retrieval\n\n   /**\n   * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or `null`\n   * if it is [failure][Result.isFailure].\n   *\n   * This function is a shorthand for `getOrElse { null }` (see [getOrElse]) or\n   * `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n   */\n   @InlineOnly\n   public inline fun getOrNull(): T? =\n   when {\n   isFailure -> null\n   else -> value as T\n   }\n\n   /**\n   * Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null`\n   * if it is [success][isSuccess].\n   *\n   * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })` (see [fold]).\n   */\n   public fun exceptionOrNull(): Throwable? =\n

    when (value) {\n   is Failure -> value.exception\n   else -> null\n   }\n\n   /**\n   * Returns a string `Success(v)` if this instance represents [success][Result.isSuccess]\n   * where `v` is a string representation of the value or a string `Failure(x)` if\n   * it is [failure][isFailure] where `x` is a string representation of the exception.\n   */\n   public override fun toString(): String =\n   when (value) {\n   is Failure -> value.toString() // \"Failure($exception)\"\n   else -> \"Success($value)\"\n   }\n\n   // companion with constructors\n\n   /**\n   * Companion object for [Result] class that contains its constructor functions\n   * [success] and [failure].\n   */\n   public companion object {\n   /**\n   * Returns an instance that encapsulates the given [value] as successful value.\n   */\n   @Suppress(\"INAPPLICABLE_JVM_NAME\")\n   @InlineOnly\n   @JvmName(\"success\")\n

        public inline fun <T> success(value: T): Result<T> =\n   Result(value)\n\n   /**\n   * Returns an instance that encapsulates the given [Throwable] [exception] as failure.\n   */\n   @Suppress(\"INAPPLICABLE_JVM_NAME\")\n   @InlineOnly\n   @JvmName(\"failure\")\n   public inline fun <T> failure(exception: Throwable): Result<T> =\n   Result(createFailure(exception))\n   }\n\n   internal class Failure(\n   @JvmField\n   val exception: Throwable\n   ) : Serializable {\n   override fun equals(other: Any?): Boolean = other is Failure && exception == other.exception\n   override fun hashCode(): Int = exception.hashCode()\n   override fun toString(): String = \"Failure($exception)\"\n   }\n}\n\n/**\n * Creates an instance of internal marker [Result.Failure] class to\n * make sure that this class is not exposed in ABI.\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun createFailure(exception: Throwable):

 Any =\n   Result.Failure(exception)\n\n/**\n * Throws exception if the result is failure. This internal function minimizes\n * inlined bytecode for [getOrThrow] and makes sure that in the future we can\n * add some exception-augmenting logic here (if needed).\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun Result<*>.throwOnFailure() {\n   if (value is Result.Failure) throw value.exception\n}\n\n/**\n * Calls the specified function [block] and returns its encapsulated result if invocation was successful,\n * catching any [Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R> runCatching(block: () -> R): Result<R> {\n   return try {\n   Result.success(block())\n   } catch (e: Throwable) {\n   Result.failure(e)\n   }\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns its encapsulated result if invocation was successful,\n * catching any [Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {\n   return try {\n   Result.success(block())\n   } catch (e: Throwable) {\n   Result.failure(e)\n   }\n}\n\n// -- extensions ---\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or throws the encapsulated [Throwable] exception\n * if it is

[failure][Result.isFailure].\n *\n * This function is a shorthand for `getOrElse { throw it }` (see [getOrElse]).\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T> Result<T>.getOrThrow(): T {\n throwOnFailure()\n   return value as T\n}\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\n * result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [onFailure] function.\n *\n * This function is a shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see [fold]).\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {\n   contract {\n   callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n   }\n   return when (val exception = exceptionOrNull()) {\n   null -> value as T\n   else -> onFailure(exception)\n   }\n}\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\n * [defaultValue] if it is [failure][Result.isFailure].\n *\n * This function is a shorthand for `getOrElse { defaultValue }` (see [getOrElse]).\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R): R {\n   if (isFailure) return defaultValue\n   return value as T\n}\n\n/**\n * Returns the result of [onSuccess] for the encapsulated value if this instance represents [success][Result.isSuccess]\n * or the result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T> Result<T>.fold(\n   onSuccess: (value: T) -> R,\n   onFailure: (exception: Throwable) -> R\n): R {\n   contract {\n   callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)\n   callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n   }\n   return when (val exception = exceptionOrNull()) {\n   null -> onSuccess(value as T)\n   else -> onFailure(exception)\n   }\n}\n\n// transformation\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n * See [mapCatching] for an alternative that encapsulates exceptions.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {\n   contract {\n   callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n   }\n   return when {\n   isSuccess -> Result.success(transform(value as T))\n   else -> Result(value)\n   }\n}\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated [Throwable] exception if it is [failure][Result.isFailure].\n *\n * This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n * See [map] for an alternative that rethrows exceptions from `transform` function.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\n   return when {\n   isSuccess -> runCatching { transform(value as T) }\n   else -> Result(value)\n   }\n}\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.\n * See [recoverCatching] for an alternative that encapsulates exceptions.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\n   contract {\n   callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n   }\n   return when (val exception = exceptionOrNull()) {\n   null -> this\n   else -> Result.success(transform(exception))\n   }\n}\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to the encapsulated [Throwable] exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * This function catches any [Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n * See [recover] for an

alternative that rethrows exceptions.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\n   return when (val exception = exceptionOrNull()) {\n   null -> this\n   else -> runCatching { transform(exception) }\n   }\n}\n\n// \"peek\" onto value/exception and pipe\n\n/**\n * Performs the given [action] on the encapsulated [Throwable] exception if this instance represents [failure][Result.isFailure].\n * Returns the original `Result` unchanged.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {\n   contract {\n   callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n   }\n   exceptionOrNull()?.let { action(it) }\n   return this\n}\n\n/**\n * Performs the given [action] on the encapsulated value if this instance represents [success][Result.isSuccess].\n * Returns the original `Result` unchanged.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {\n   contract {\n   callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n   }\n   if (isSuccess) action(value as T)\n   return this\n}\n\n// ------------------\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.contracts.*\nimport kotlin.coroutines.intrinsics.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Interface representing a continuation after a suspension point that returns a value of type `T`.\n */\n@SinceKotlin(\"1.3\")\npublic interface Continuation<in T> {\n   /**\n   * The context of the coroutine that corresponds to this continuation.\n   */\n   public val context: CoroutineContext\n\n   /**\n   * Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\n   * return value of the last suspension point.\n   */\n   public fun resumeWith(result: Result<T>)\n}\n\n/**\n * Classes and interfaces marked with this annotation are restricted when used as receivers for extension\n * `suspend` functions. These `suspend` extensions can only invoke other member or extension `suspend` functions on this particular\n * receiver and are restricted from calling arbitrary suspension functions.\n */\n@SinceKotlin(\"1.3\")\n@Target(AnnotationTarget.CLASS)\n@Retention(AnnotationRetention.BINARY)\npublic annotation class RestrictsSuspension\n\n/**\n * Resumes the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun <T> Continuation<T>.resume(value: T): Unit =\n   resumeWith(Result.success(value))\n\n/**\n * Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the\n * last suspension point.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =\n   resumeWith(Result.failure(exception))\n\n/**\n * Creates a [Continuation] instance with the given [context] and implementation of [resumeWith] method.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun <T> Continuation(\n   context: CoroutineContext,\n   crossinline resumeWith: (Result<T>) -> Unit\n): Continuation<T> =\n   object : Continuation<T> {\n   override val context: CoroutineContext\n   get() = context\n\n   override fun resumeWith(result: Result<T>) =\n   resumeWith(result)\n   }\n\n/**\n * Creates a coroutine without a receiver and with result type [T].\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n * Subsequent invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <T> (suspend () -> T).createCoroutine(\n   completion: Continuation<T>\n): Continuation<Unit>\n =\n   SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)\n\n/**\n * Creates a coroutine with receiver type [R] and result type [T].\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when the coroutine completes with a result or an exception.\n * Subsequent

invocation of any resume function on the resulting continuation will produce an [IllegalStateException].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <R, T> (suspend R.() ->
T).createCoroutine(\n   receiver: R,\n   completion: Continuation<T>\n): Continuation<Unit> =\n
SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),
COROUTINE_SUSPENDED)\n\n/**\n * Starts a coroutine without a receiver and with result type [T].\n * This
 function creates and starts a new, fresh instance of suspendable computation every time it is invoked.\n * The
[completion] continuation is invoked when the coroutine completes with a result or an exception.\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <T> (suspend () ->
T).startCoroutine(\n   completion: Continuation<T>\n) {\n
createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/**\n * Starts a coroutine with receiver
type [R] and result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation
every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or
an exception.\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <R, T> (suspend
R.() -> T).startCoroutine(\n   receiver: R,\n   completion: Continuation<T>\n) {\n
createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n/**\n * Obtains
 the current continuation instance inside suspend functions and suspends\n * the currently running coroutine.\n *\n *
In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used either
synchronously in\n * the same stack-frame where the suspension function is run or asynchronously later in the same
thread or\n * from a different thread of execution. Subsequent invocation of any resume function will produce an
[IllegalStateException].\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic suspend inline fun <T>
suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {\n   contract { callsInPlace(block,
InvocationKind.EXACTLY_ONCE) }\n   return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> -
>\n   val safe = SafeContinuation(c.intercepted())\n   block(safe)\n   safe.getOrThrow()\n   }\n}\n\n/**\n *
Returns the context of the current coroutine.\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"WRONG_MODIFIER_TARGET\")\n@InlineOnly\npublic
 suspend inline val coroutineContext: CoroutineContext\n   get() {\n   throw
NotImplementedError(\"Implemented as intrinsic\")\n   }\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.intrinsics\n\nimport
kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Starts an unintercepted coroutine without a receiver
and with result type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its
exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the
[completion] continuation is invoked when the coroutine completes with a result or an exception.\n *\n * The
coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n
* be present in
 the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n * context
is established.\n *\n * This function is designed to be used from inside of
[suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n * coroutine using a reference
to the suspending function.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic actual inline fun <T> (suspend () ->
T).startCoroutineUninterceptedOrReturn(\n   completion: Continuation<T>\n): Any? =
this.asDynamic()(completion, false)\n\n/**\n * Starts an unintercepted coroutine with receiver type [R] and result
type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its exception if it
does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the [completion]
continuation is invoked when the coroutine completes with a result or an exception.\n *\n * The coroutine is started
directly in the invoker's thread without
 going through the [ContinuationInterceptor] that might\n * be present in the completion's [CoroutineContext]. It is
the invoker's responsibility to ensure that a proper invocation\n * context is established.\n *\n * This function is
designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the

suspended\n * coroutine using a reference to the suspending function.\n
*/\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic actual inline fun <R, T> (suspend R.() ->
T).startCoroutineUninterceptedOrReturn(\n   receiver: R,\n   completion: Continuation<T>\n): Any? =
this.asDynamic()(receiver, completion, false)\n\n@InlineOnly\ninternal actual inline fun <R, P, T> (suspend R.(P) -
> T).startCoroutineUninterceptedOrReturn(\n   receiver: R,\n   param: P,\n   completion: Continuation<T>\n):
Any? = this.asDynamic()(receiver, param, completion, false)\n\n/**\n * Creates unintercepted coroutine without
receiver and with result type [T].\n * This function creates

a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created
coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is
invoked when coroutine completes with result or exception.\n *\n * This function returns unintercepted
continuation.\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going
through the\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\n * It is the
invoker's responsibility to ensure that a proper invocation context is established.\n * Note that [completion] of this
function may get invoked in an arbitrary context.\n *\n * [Continuation.intercepted] can be used to acquire the
intercepted continuation.\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\n
* both the coroutine and [completion] happens in the invocation context established

by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any resume function on the resulting continuation
corrupts the\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\n
*/\n@SinceKotlin(\"1.3\")\npublic actual fun <T> (suspend () -> T).createCoroutineUnintercepted(\n   completion:
Continuation<T>\n): Continuation<Unit> =\n   // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n
  if (this.asDynamic().length == 2) {\n   // When `suspended` is true the continuation is created, but not
executed\n   this.asDynamic()(completion, true)\n   } else {\n
createCoroutineFromSuspendFunction(completion) {\n   this.asDynamic()(completion)\n   }\n   }\n\n/**\n
* Creates unintercepted coroutine with receiver type [R] and result type [T].\n * This function creates a new, fresh
instance of suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine,
invoke `resume(Unit)`

on the returned [Continuation] instance.\n * The [completion] continuation is invoked when coroutine completes
with result or exception.\n *\n * This function returns unintercepted continuation.\n * Invocation of `resume(Unit)`
starts coroutine immediately in the invoker's call stack without going through the\n * [ContinuationInterceptor] that
might be present in the completion's [CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper
invocation context is established.\n * Note that [completion] of this function may get invoked in an arbitrary
context.\n *\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Invocation of
`resume(Unit)` on intercepted continuation guarantees that execution of\n * both the coroutine and [completion]
happens in the invocation context established by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any
resume function on the resulting continuation corrupts the\n * state machine of

the coroutine and may result in arbitrary behaviour or exception.\n */\n@SinceKotlin(\"1.3\")\npublic actual fun
<R, T> (suspend R.() -> T).createCoroutineUnintercepted(\n   receiver: R,\n   completion: Continuation<T>\n):
Continuation<Unit> =\n   // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n   if
(this.asDynamic().length == 3) {\n   // When `suspended` is true the continuation is created, but not executed\n
  this.asDynamic()(receiver, completion, true)\n   } else {\n   createCoroutineFromSuspendFunction(completion)
{\n   this.asDynamic()(receiver, completion)\n   }\n   }\n\n/**\n * Intercepts this continuation with
[ContinuationInterceptor].\n *\n * This function shall be used on the immediate result of
[createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],\n * in which case it checks for
[ContinuationInterceptor] in the continuation's [context][Continuation.context],\n * invokes
[ContinuationInterceptor.interceptContinuation],

caches and returns the result.\n *\n * If this function is invoked on other [Continuation] instances it returns `this`
continuation unchanged.\n */\n@SinceKotlin(\"1.3\")\npublic actual fun <T> Continuation<T>.intercepted():
Continuation<T> =\n   (this as? CoroutineImpl)?.intercepted() ?: this\n\n\nprivate inline fun <T>

createCoroutineFromSuspendFunction(\n   completion: Continuation<T>,\n   crossinline block: () -> Any?\n):
Continuation<Unit> {\n   @Suppress(\"UNCHECKED_CAST\")\n   return object : CoroutineImpl(completion as
Continuation<Any?>) {\n   override fun doResume(): Any? {\n   exception?.let { throw it }\n   return
block()\n   }\n   }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n// Mirrors signature from JS IR BE\n// Used for
js.translator/testData/box/number/mulInt32.kt\n@library\n@JsName(\"imulEmulated\")\n@Suppress(\"UNUSED_P
ARAMETER\")\ninternal fun imul(x: Int, y: Int): Int =
definedExternally\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal inline fun isArrayish(o: dynamic) =
js(\"Kotlin\").isArrayish(o)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\n// NOTE: Do not author your exceptions as they are written in
this file, instead use this template:\n/*\npublic open class MyException : Exception {\n   constructor() : super()\n
constructor(message: String?) : super(message)\n   constructor(message: String?, cause: Throwable?) :
super(message, cause)\n   constructor(cause: Throwable?) : super(cause)\n}\n*/\n\n\n// TODO: remove primary
constructors, make all secondary KT-22055\n\n@Suppress(\"USELESS_ELVIS_RIGHT_IS_NULL\")\npublic
actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?:
null) {\n   actual constructor() : this(null, null)\n   actual constructor(message: String?) : this(message, null)\n
actual constructor(cause: Throwable?) : this(undefined,
cause)\n}\n\n@Suppress(\"USELESS_ELVIS_RIGHT_IS_NULL\")\npublic actual open class Exception actual
constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n   actual constructor() :
this(null, null)\n   actual constructor(message: String?) : this(message, null)\n   actual constructor(cause:
Throwable?) : this(undefined, cause)\n}\n\npublic actual open class RuntimeException actual constructor(message:
String?, cause: Throwable?) : Exception(message, cause) {\n   actual constructor() : this(null, null)\n   actual
constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined,
cause)\n}\n\npublic actual open
class IllegalArgumentException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual constructor(message:
String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual
open class IllegalStateException actual constructor(message: String?, cause: Throwable?) :
RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual constructor(message:
String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual
open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {\n
actual constructor() : this(null)\n}\n\npublic actual open class ConcurrentModificationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n   actual constructor() :
this(null, null)\n   actual
constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined,
cause)\n}\n\npublic actual open class UnsupportedOperationException actual constructor(message: String?, cause:
Throwable?) : RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual
constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined,
cause)\n}\n\n\npublic actual open class NumberFormatException actual constructor(message: String?) :
IllegalArgumentException(message) {\n   actual constructor() : this(null)\n}\n\npublic actual open class
NullPointerException actual constructor(message: String?) : RuntimeException(message) {\n   actual constructor() :
this(null)\n}\n\npublic actual open class ClassCastException actual constructor(message: String?) :
RuntimeException(message) {\n   actual constructor() : this(null)\n}\n\npublic actual open class
AssertionError\n@SinceKotlin(\"1.4\")\nconstructor(message:
String?, cause: Throwable?) : Error(message, cause) {\n   actual constructor() : this(null)\n   constructor(message:
String?) : this(message, null)\n   actual constructor(message: Any?) : this(message.toString(), message as?

Throwable)\n}\n\npublic actual open class NoSuchElementException actual constructor(message: String?) : RuntimeException(message) {\n   actual constructor() : this(null)\n}\n\n@SinceKotlin(\"1.3\")\npublic actual open class ArithmeticException actual constructor(message: String?) : RuntimeException(message) {\n   actual constructor() : this(null)\n}\n\npublic actual open class NoWhenBranchMatchedException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class UninitializedPropertyAccessException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is governed by the Apache 2.0 license\n * that can be found in the license/LICENSE.txt file.\n */\n\n\n@file:Suppress(\"UNUSED_PARAMETER\")\n\npackage kotlin.js\n\n@kotlin.internal.InlineOnly\ninternal inline fun jsDeleteProperty(obj: Any, property: Any) {\n   js(\"delete obj[property]\")\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\n js(\"lhs | rhs\").unsafeCast<Int>()","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.withSign(sign: Double): Double {\n   val thisSignBit = js(\"Kotlin\").doubleSignBit(this).unsafeCast<Int>()\n   val newSignBit = js(\"Kotlin\").doubleSignBit(sign).unsafeCast<Int>()\n   return if (thisSignBit == newSignBit) this else -this\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point \"double format\" bit layout.\n */\n@SinceKotlin(\"1.2\")\n@library(\"doubleToBits\")\npublic actual fun Double.toBits(): Long = definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point \"double format\" bit layout,\n * preserving `NaN` values exact layout.\n */\n@SinceKotlin(\"1.2\")\n@library(\"doubleToRawBits\")\npublic actual fun Double.toRawBits(): Long = definedExternally\n\n/**\n * Returns the [Double] value corresponding to a given bit representation.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Double.Companion.fromBits(bits: Long): Double = js(\"Kotlin\").doubleFromBits(bits).unsafeCast<Double>()\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point \"single format\" bit layout.\n *\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n@SinceKotlin(\"1.2\")\n@library(\"floatToBits\")\npublic actual fun Float.toBits(): Int = definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point \"single format\" bit layout,\n * preserving `NaN` values exact layout.\n *\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n@SinceKotlin(\"1.2\")\n@library(\"floatToRawBits\")\npublic actual fun Float.toRawBits(): Int = definedExternally\n\n/**\n * Returns the [Float] value corresponding to a given bit representation.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Float.Companion.fromBits(bits: Int): Float = js(\"Kotlin\").floatFromBits(bits).unsafeCast<Float>()\n\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal inline fun Long(low: Int, high: Int) = js(\"Kotlin\").Long.fromBits(low, high).unsafeCast<Long>()\ninternal

inline val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()\ninternal inline val Long.high: Int get() = this.asDynamic().getHighBits().unsafeCast<Int>()\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nimport kotlin.reflect.KClass\n\n@PublishedApi\ninternal fun <T : Annotation> KClass<*>.findAssociatedObject(@Suppress(\"UNUSED_PARAMETER\") annotationClass: KClass<T>): Any? {\n   // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.\n   return null\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Long] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\n// 1343 ranges totally\nprivate object Category {\n   val decodedRangeStart: IntArray\n   val decodedRangeCategory: IntArray\n\n   init {\n   val toBase64 = \"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\"\n   val fromBase64 = IntArray(128)\n   for (i in toBase64.indices) {\n   fromBase64[toBase64[i].code] = i\n   }\n\n   // rangeStartDiff.length = 1482\n   val rangeStartDiff = \"gBCFEDCKCDCaDDaDBhBCEEDDDDDEDXBHYBH5BRwBGDCHDCIDFHDCHFDCDEIRTEE7BGHDDJlCBbSEMOFGERwDEDDDDECEFCRBJhBFDCYFFCCzBvBjBBFC3BOhDBmBDGpBDDCtBBJIbEECLGDFCLDCgBBKVKEDiDDHCFECECKCEODBebC5CLBOKhBJDDDDWEBHFCFCPBZDEL1BVBSLPBgBB2BDBDICFBHKCCKCPDBHEDWBHEDDDDEDEDIBDGDCKCCGDDDCGECCWBFMDDCDEDDCHDDHKDDBKDBHFCWBFGFDBDDFEDBPDDKCHBGDCHEDWBFGFDCEDEDBHDDGDCKCGJEGDBFDDFDDDDDMEFDBFDCGBOKDFDFDCGFCXBQDDDDDBEGEDFDDKHBHDDGFCXBKBFCEFCFCHCHECCKDNCCHFCoBEDECFDDDDHDCCKJBGDCSDYBJEHBFDDEBIGKDCMuBFHEBGBIBKCkBFBFBXEIFJDFDGCKCEgBBDPEDGKKGECIBkBEOBDFFLBkBBIBEFFEClBrBCEBEGDBKGGDDDDDCHDENDCFEKDDlBDDFrBCDpKBECGEECpBBEChBBECGEECPB5BBECjCCDJUDQKG2CCGDsTCRBaCDrCDDIHNBEDLSDCJSCMLFCCM0BDHGFLBFDDKGKGEFDDBKGjBB1BHFChBDFmCKfDDDDDDCGDCFDKeCFLsBEaGKBDiBXDDD1BDGDEIGJEKGKGHBGCMF/BEBvBCEDDFHEKHKJJDDeDDGDKsBFEDCIEkBIICCDFKDDKeGCJHrBCDIDBNBHEBEFDBFsB/BNBiBlB6BBF1EIiDJIGCGCIIIIGCGCIIIIOCIIIIIIDFEDDBFEDDDDEBDIFDDFEDBLFGCEEICFBJCDEDCLDKBFBKCCGDDKDDNDgBQNEBDMPFFDEDEBFFHECEBEEDFBEDDQjBCEDEFFCCJHBeEEFsIIEUCHCxCBeZoBGlCZLV8BuCW3FBJB2BIvDB4HOesBFCfKQgIjEW/BEgBCiIwBVCGnBCgBBpDvBBuBEDBHEFGCCjDCGEDCFCFlBDDF4BHCOBXJHBHBHBHBHBHBHBHBgBCECGHGEDIFBKCEDMEtBaB5CM2GaMEDDCKCGFCJEDFDDDC2CDDDB6CDCFrBB+CDEKgBkBMQfBKeIBPgBKnBPgKguGgC9vUDVB3jBD3BJoBGCsIBDQKCUuBDDKCcCCmCKCGIXJCNC/BBHGKDECEVFBEMCEEBqBDDGDFDXDCEBDGEG0BEICyBQCICKGSGDEBKcICXLCLBdDDBvBDECCDNCKECFCJKFBpBFEDCJDBICCKCEQBGDDByBEDCEFBYDCLEDDCKGCGCGJHBHBHBrBBEJDEwCjBIDCKGk9KMXExBEggCgoGuLCqDmBHMFFCKBNBFBIsDQRrLCQgCC2BoBMCCQGEGQDCQDDDDFDGDECEEFBnEEBFEDCKCDCaDDaDBFCKBtBCfDGCGCFEDDDDCECKDC\"\n\n   val diff = decodeVarLenBase64(rangeStartDiff, fromBase64, 1342)\n   val start = IntArray(diff.size + 1)\n   for (i in diff.indices) {\n   start[i + 1] = start[i] + diff[i]\n   }\n   decodedRangeStart = start\n\n   // rangeCategory.length = 2033\n   val rangeCategory = \"PsY44a41W54UYJYZYB14W7XC15WZPsYa84bl9Zw8b85Lr7C44brlerrYBZBCZCiBiBiBhCiiBhChiBhiCBhhChiCihBhChCChiBhChiClBCFhjCiBiBihDhiBhCCihBiBBhCCFCEbEbEb7EbGhCk7BixRkiCi4BRbh4BhRhCBRBCiiBBCiBChiZBCBCiBcGHhChCiBRBxxEYC40Rx8c6RGUm4GRFRFYRQZ44acG4wRYFEFGJYllGFlYGwcGmkEmcGFJFl8cYxwFGFGRFGFRJFGkkcYkxRm6aFGEGmmEmEGRYRFGxxYFRFRFRGQGIFmIFIGIooGF"

GFGYJ4EFmoIRFlxRlxRFRFxlRxlFllRxmFIGxxIoxRomFRIRxlFlmGRJFaL86F4mRxmGoRFRFRFRFllRxGIGR
xmGxmGmxRxGRFlRRJmmFllGYRmmIRFllRlRFRFllRFxxGFIGmmRoxImxRFRllGmxRJ4aRFGxmIoRFlxRlxR
FRFllRFxxGlImoGmmRxoIxoIGRmmIRxlFlmGRJ8FLRxmFFRFllRllRxxFlRlxRxlFRFRFRooGRIooRomRxFRIR
JLc8aRmoIoGFllRlRFRFRlmGmoIooRGRGRxmGFRllGmxRJRYL8lGooYFllRlRFRFRFRmllIIxGooRGRIRlxFG
RJxlFRGIFllRlRFlmGIGxIooRomF8xRxxFllILFGRJLcFxmIoRFRFRFxlRFRxxGxxIooGmmRRIRJxxIoYRFllGG
RaFEGYJYRxlFRFRFlRFllGGlxRFxEGRJRFRFcY84c8mGcJL8G1WIFRFRGIGmmYFGRGRcGc88RYcYRFIGI
GmmIomGFJYFooGmlFllGmmFIFIFGFmoIGIomFJIm8cBhRRxxBC4ECFRFRFlRFRFRFRFRFRFlRFRFRFRFR
FRGYLRFcRBRCxxUF8YFMF1WRFYKFRFRFGRFGYRFGRFllRlRGRFmmIGIooGGY44E46FmxRJRLRY44
U44GmmQRJRFEFRFGFlGRFRFxmGmoIooGmoIoxRxxIoGIGRxxcx4YJFRFRFRFRJLRcFmmIomRx4YFoGG
mRomIGIGmxRJRJRYEYRGmmHRGIFmIGmIIooGFRJYcGcRmmIFomGmmIomGmlFJFmoGooGGIRYFIGIG
RYJRFJFEYCRBRBYRGYGIGFGFllGomGFRCECECEGRGhCCiBCBCRBRCBCBCRBRCxBCBCRCDCDCD
CiiRBj7CbCiiRBj7b7iCiiRxiCBRbCBbxxCiiRBj7bRMQUY9+V9+VYtOQMY9eY43X44Z1WY54XYMQRQrER
LZ12ELZ12RERaRGHGHGR88B88BihBhiChhC8hcZBc8BB8CBCFi8cihBZBC8Z8CLKhCKr8cRZcZc88ZcZc85
Z8ZcZc1WcZc1WcZcZcZcRcRLcLcZcZcZcZc1WLcZ1WZ1WZcZ1WZ1WZ1WZcZcZcRcRcBRCixBBCiBBihC
CEBhCCchCGhCRY44LCiRRxxCFRkYRGFRFRFRFRFRFRFRFRFRFRGY9eY49eY44U49e49e1WYEYUY04VY
48cRcRcRcRcRs4Y48ElK1Wc1W12U2cKGooUE88KqqEl4c8RFxxGm7bkkFUF4kEkFRFRFx8cLcFcRFcRLcLc
LcLcLcFcFRFEFRcRFEYFEYFJFRhClmHnnYG4EhCEGFKGYRbEbhCCiBhCk7bhClBihCiBBCBhCRhiBh
hCCRhiFkkCFlGllGllGFooGmIcGRL88aRFYRIFIGRYJRGFYl4FGJFGYFGIRYFRGIFmoIGIGIYxEJRYFmEFJ
FRFGmoImoIGRFGFmIRJRYFEFcloGIFmlGmlFGFlmGFRllEYFomGo4YlkEoGRFRFRFRFRFRCbECk7bRCFo
oG4oGRJRFRFRFRTSFRFRCRCRlGFZFRFRlxFFbRF2VRFRFRF6cRGY41WRG40UX1W44V24Y44X33Y44R
44U1WY50Z5R46YRFRFRFxxQY44a41W54UYJYZYB14W7XC15WZ12YYFEFEFRFRFRFlxRllRxxa65b86axcZc
RQcR\"\n

    decodedRangeCategory = decodeVarLenBase64(rangeCategory,
 fromBase64, 1343)\n   }\n}\n\nprivate fun categoryValueFrom(code: Int, ch: Int): Int {\n   return when {\n
code < 0x20 -> code\n   code < 0x400 -> if ((ch and 1) == 1) code shr 5 else code and 0x1f\n   else ->\n
when (ch % 3) {\n   2 -> code shr 10\n   1 -> (code shr 5) and 0x1f\n   else -> code and
0x1f\n   }\n   }\n}\n\n/**\n * Returns the Unicode general category of this character as an Int.\n */\ninternal
fun Char.getCategoryValue(): Int {\n   val ch = this.code\n\n   val index =
binarySearchRange(Category.decodedRangeStart, ch)\n   val start = Category.decodedRangeStart[index]\n   val
code = Category.decodedRangeCategory[index]\n   val value = categoryValueFrom(code, ch - start)\n\n   return if
(value == 17) CharCategory.UNASSIGNED.value else value\n}\n\ninternal fun decodeVarLenBase64(base64:
String, fromBase64: IntArray, resultLength: Int): IntArray {\n   val result = IntArray(resultLength)\n
    var index = 0\n   var int = 0\n   var shift = 0\n   for (char in base64) {\n   val sixBit =
fromBase64[char.code]\n   int = int or ((sixBit and 0x1f) shl shift)\n   if (sixBit < 0x20) {\n
result[index++] = int\n   int = 0\n   shift = 0\n   } else {\n   shift += 5\n   }\n   }\n   return
result\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the
GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport
kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses elements in the list in-
place.\n */\npublic actual fun <T> MutableList<T>.reverse(): Unit {\n   val midPoint
 = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n
val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n
}\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n//
See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\n// 37 ranges totally\nprivate object Digit
{\n   internal val rangeStart = intArrayOf(\n   0x0030, 0x0660, 0x06f0, 0x07c0, 0x0966, 0x09e6, 0x0a66,

0x0ae6, 0x0b66, 0x0be6, 0x0c66, 0x0ce6, 0x0d66, 0x0de6, 0x0e50, 0x0ed0, 0x0f20, 0x1040, 0x1090, 0x17e0, \n
 0x1810, 0x1946, 0x19d0, 0x1a80, 0x1a90, 0x1b50, 0x1bb0, 0x1c40, 0x1c50, 0xa620,
 0xa8d0, 0xa900, 0xa9d0, 0xa9f0, 0xaa50, 0xabf0, 0xff10, \n   )\n}\n\n/**\n * Returns the index of the largest element in [array] smaller or equal to the specified [needle],\n * or -1 if [needle] is smaller than the smallest element in [array].\n */\ninternal fun binarySearchRange(array: IntArray, needle: Int): Int {\n   var bottom = 0\n   var top = array.size - 1\n   var middle = -1\n   var value = 0\n   while (bottom <= top) {\n   middle = (bottom + top) / 2\n   value = array[middle]\n   if (needle > value)\n   bottom = middle + 1\n   else if (needle == value)\n   return middle\n   else\n   top = middle - 1\n   }\n   return middle - (if (needle < value) 1 else 0)\n}\n\n/**\n * Returns an integer from 0..9 indicating the digit this character represents,\n * or -1 if this character is not a digit.\n */\ninternal fun Char.digitToIntImpl(): Int {\n   val ch = this.code\n   val index = binarySearchRange(Digit.rangeStart, ch)\n   val diff = ch - Digit.rangeStart[index]\n   return if (diff < 10) diff else -1\n}\n\n/**\n * Returns `true` if this character is a digit.\n */\ninternal fun Char.isDigitImpl(): Boolean {\n   return digitToIntImpl() >= 0\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\n// 222 ranges totally\nprivate object Letter {\n   val decodedRangeStart: IntArray\n   val decodedRangeLength: IntArray\n   val decodedRangeCategory: IntArray\n\n   init {\n   val toBase64 =

\"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\"\n   val fromBase64 = IntArray(128)\n   for (i in toBase64.indices) {\n   fromBase64[toBase64[i].code] = i\n   }\n\n   // rangeStartDiff.length = 356\n   val rangeStartDiff = \"hCgBpCQGYHZH5BRpBPPPPPPRMP5BPPlCPP6BkEPPPPcPXPzBvBrB3BOiDoBHwD+E3DauCnFmBmB2D6E1BlBTiBmBlBP5BhBiBrBvBjBqBnBPRtBiCmCtBlB0BmB5BiB7BmBgEmChBZgCoEoGVpBSfRhBPqKQ2BwBYoFgB4CJuTiEvBuCuDrF5DgEgFlJ1DgFmBQtBsBRGsB+BPiBlD1EIjDPRPPPQPPPPPGQSQS/DxENVNU+B9zCwBwBPPCkDPNnBPqDYY1R8B7FkFgTgwGgwUwmBgKwBuBScmEP/BPPPPPrBP8B7F1B/ErBqC6B7BiBmBfQsBUwCw/KwqIwLwETPcPjQgJxFgBlBsD\"\n   val diff = decodeVarLenBase64(rangeStartDiff, fromBase64, 222)\n   val start = IntArray(diff.size)\n   for (i in diff.indices) {\n   if (i == 0) start[i] = diff[i]\n   else start[i] = start[i - 1] + diff[i]\n   }\n   decodedRangeStart = start\n\n   // rangeLength.length = 328\n   val rangeLength = \"aaMBXHYH5BRpBPPPPPPRMP5BPPlCPPzBDOOPPcPXPzBvBjB3BOhDmBBpB7DoDYxB+EiBP1DoExBkBQhBekBPmBgBhBctBiBMWOOXhCsBpBkBUV3Ba4BkB0DlCgBXgBtD4FSdBfPhBPpKP0BvBXjEQ2CGsT8DhBtCqDpFvD1D3E0IrD2EkBJrBDOBsB+BPiBlB1EIjDPPPPPPPPPPGPPMNLsBNPNPKCvBvBPPCkDPBmBPhDXXgD4B6FzEgDguG9vUtkB9JcuBSckEP/BPPPPPBPf4FrBjEhBpC3B5BKaWPrBOwCk/KsCuLqDHPbPxPsFtEaaqDL\"\n   decodedRangeLength = decodeVarLenBase64(rangeLength, fromBase64, 222)\n\n   // rangeCategory.length = 959\n   val rangeCategory = \"GFjgggUHGGFFZZZmzpz5qB6s6020B60ptltB6smt2sB60mz22B1+vv+8BZZ5s2850BW5q1ymtB506smzBF3q1q1qB1q1q1+Bgii4wDTm74g3KiggxqM60q1q1Bq1o1q1BF1qlrqrBZ2q5wprBGFZWWZGHFsjiooLowgmOowjkwCkgoiIk7ligGogiioBkwkiYkzj2oNoi+sbkwj04DghhkQ8wgiYkgoioDsgnkwC4gikQ//v+85BkwvoIsgoyI4yguI0whiwEowri4CoghsJowgqYowgm4DkwgsY/nwnzPowhmYkg6wI8yggZswikwHgxgmIoxgqYkwgk4DkxgmIkgoioBsgssoBgzgyI8g9gL8g9kI0wgwJoxgkoC0wgioFkw/wI0w53iF4gioYowjmgBHGq1qkgwBF1q1q8qBHwghuIwghyKk0goQkwgoQk3goQHGFHkyg0pBgxj6IoinkxDswno7Ikwhz9Bo0gioB8z48Rwli0xN0mpjoX8w78pDwltoqKHFGGwwgsIHFH3q1q16BFHWFZ1q10q1B2qlwq1B1q10q1B2q1yq1B6q1gq1Biq1qhxBir1qp1Bqt1q1qB1g1q1+B//3q16B///q1qBH/qlqq9Bholqq9B1i00a1q10qD1op1HkwmigEigiy6Cptogq1Bixo1kDq7/j00B2qgoBWGFm1lz50B6s5q1+BGWhggzhwBFFFhgk4//Bo2jigE8wguI8wguI8wgugUog1qoB4qjmIwwi2KgkYHHH4lBgiFWkgIWoghssMmz5smrBZ3q1y50B5sm7gzBtz1smzB5smz50BqzqtmzB5sgzqzBF2/9//5BowgoIwmnkzPkwgk4C8ys65BkgoqI0wgy6FghquZo2giY0ghiIsgh24B4ghsQ8QF/v1q1OFs0O8iCHHF1qggz/B8wg6Iznv+//B08QgohsjK0QGFk7hsQ4gB\"\n

decodedRangeCategory = decodeVarLenBase64(rangeCategory, fromBase64, 222)\n   }\n}\n\n/**\n * Returns `true` if this character is a letter.\n */\ninternal fun Char.isLetterImpl(): Boolean {\n   return getLetterType() != 0\n}\n\n/**\n * Returns `true` if this character is a lower case letter, or it has contributory property `Other_Lowercase`.\n */\ninternal fun Char.isLowerCaseImpl(): Boolean {\n   return getLetterType() == 1 || code.isOtherLowercase()\n}\n\n/**\n * Returns `true` if this character is an upper case letter, or it has contributory property `Other_Uppercase`.\n */\ninternal fun Char.isUpperCaseImpl(): Boolean {\n   return getLetterType() == 2 || code.isOtherUppercase()\n}\n\n/**\n

 * Returns\n *   - `1` if the character is a lower case letter,\n *   - `2` if the character is an upper case letter,\n *   - `3` if the character is a letter but not a lower or upper case letter,\n *   - `0` otherwise.\n */\nprivate fun Char.getLetterType(): Int {\n   val ch = this.code\n   val index = binarySearchRange(Letter.decodedRangeStart, ch)\n\n   val rangeStart = Letter.decodedRangeStart[index]\n   val rangeEnd = rangeStart + Letter.decodedRangeLength[index] - 1\n   val code = Letter.decodedRangeCategory[index]\n\n   if (ch > rangeEnd) {\n   return 0\n   }\n\n   val lastTwoBits = code and 0x3\n\n   if (lastTwoBits == 0) { // gap pattern\n   var shift = 2\n   var threshold = rangeStart\n   for (i in 0..1) {\n   threshold += (code shr shift) and 0x7f\n

     if (threshold > ch) {\n   return 3\n   }\n   shift += 7\n   threshold += (code shr shift) and 0x7f\n   if (threshold > ch) {\n

             return 0\n   }\n   shift += 7\n   }\n   return 3\n   }\n\n   if (code <= 0x7) {\n   return lastTwoBits\n   }\n\n   val distance = (ch - rangeStart)\n   val shift = if (code <= 0x1F) distance % 2 else distance\n   return (code shr (2 * shift)) and 0x3\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nprivate object OtherLowercase {\n   internal val otherLowerStart = intArrayOf(\n   0x00aa, 0x00ba, 0x02b0, 0x02c0, 0x02e0, 0x0345, 0x037a, 0x1d2c, 0x1d78, 0x1d9b, 0x2071, 0x207f, 0x2090, 0x2170, 0x24d0, 0x2c7c, 0xa69c, 0xa770, 0xa7f8, 0xab5c, \n   )\n   internal val otherLowerLength = intArrayOf(\n

     1, 1, 9, 2, 5, 1, 1, 63, 1, 37, 1, 1, 13, 16, 26, 2, 2, 1, 2, 4, \n   )\n}\n\ninternal fun Int.isOtherLowercase(): Boolean {\n   val index = binarySearchRange(OtherLowercase.otherLowerStart, this)\n   return index >= 0 && this < OtherLowercase.otherLowerStart[index] + OtherLowercase.otherLowerLength[index]\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\ninternal fun Int.isOtherUppercase(): Boolean {\n   return this in 0x2160..0x216f\n || this in 0x24b6..0x24cf\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n\nimport kotlin.js.*\n\n/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharSequence.elementAt(index: Int): Char {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length}\") }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n//\n

 4 ranges totally\ninternal fun Char.titlecaseCharImpl(): Char {\n   val code = this.code\n   // Letters repeating <Lu, Lt, Ll> sequence and code of the Lt is a multiple of 3, e.g. <\u01c4, \u01c5, \u01c6>\n   if (code in 0x01c4..0x01cc || code in 0x01f1..0x01f3) {\n   return (3 * ((code + 1) / 3)).toChar()\n   }\n   // Lower case letters whose title

case mapping equivalent is equal to the original letter\n   if (code in 0x10d0..0x10fa || code in 0x10fd..0x10ff) {\n   return this\n   }\n   return uppercaseChar()\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int): UInt {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int): ULong {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int): UByte {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int): UShort {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.asList(): List<UInt> {\n   return object : AbstractList<UInt>(), RandomAccess {\n   override val size: Int get() = this@asList.size\n   override fun isEmpty(): Boolean = this@asList.isEmpty()\n   override fun contains(element: UInt): Boolean = this@asList.contains(element)\n   override fun get(index: Int): UInt {\n   AbstractList.checkElementIndex(index, size)\n   return this@asList[index]\n   }\n   override fun indexOf(element: UInt): Int {\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is UInt) return -1\n   return this@asList.indexOf(element)\n   }\n   override fun lastIndexOf(element: UInt): Int {\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is UInt) return -1\n   return this@asList.lastIndexOf(element)\n   }\n   }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong> {\n   return object : AbstractList<ULong>(), RandomAccess {\n   override val size: Int get() = this@asList.size\n   override fun isEmpty(): Boolean = this@asList.isEmpty()\n   override fun contains(element: ULong): Boolean = this@asList.contains(element)\n   override fun get(index: Int): ULong {\n   AbstractList.checkElementIndex(index, size)\n   return this@asList[index]\n   }\n   override fun indexOf(element: ULong): Int {\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is ULong) return -1\n   return this@asList.indexOf(element)\n   }\n   override fun lastIndexOf(element: ULong): Int {\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is ULong) return -1\n   return this@asList.lastIndexOf(element)\n   }\n   }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList(): List<UByte> {\n   return object : AbstractList<UByte>(), RandomAccess {\n   override val size: Int get() = this@asList.size\n   override fun isEmpty(): Boolean = this@asList.isEmpty()\n   override fun

contains(element: UByte): Boolean = this@asList.contains(element)\n   override fun get(index: Int): UByte {\n   AbstractList.checkElementIndex(index, size)\n   return this@asList[index]\n   }\n   override fun indexOf(element: UByte): Int {\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is UByte) return -1\n   return this@asList.indexOf(element)\n   }\n   override fun lastIndexOf(element: UByte): Int {\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is UByte) return -1\n return this@asList.lastIndexOf(element)\n   }\n   }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

actual fun UShortArray.asList(): List<UShort> {\n   return object : AbstractList<UShort>(), RandomAccess {\n override val size: Int get() = this@asList.size\n   override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UShort): Boolean = this@asList.contains(element)\n   override fun get(index: Int): UShort {\n   AbstractList.checkElementIndex(index, size)\n   return this@asList[index]\n   }\n override fun indexOf(element: UShort): Int {\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is UShort) return -1\n   return this@asList.indexOf(element)\n   }\n   override fun lastIndexOf(element: UShort): Int {\n   @Suppress(\"USELESS_CAST\")\n   if ((element as Any?) !is UShort) return -1\n   return this@asList.lastIndexOf(element)\n   }\n   }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language

contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\n// 9 ranges totally\n/**\n * Returns `true` if this character is a whitespace.\n */\ninternal fun Char.isWhitespaceImpl(): Boolean {\n   val ch = this.code\n   return ch in 0x0009..0x000d\n || ch in 0x001c..0x0020\n || ch == 0x00a0\n || ch > 0x1000 && (\n   ch == 0x1680\n || ch in 0x2000..0x200a\n || ch == 0x2028\n || ch == 0x2029\n || ch == 0x202f\n || ch == 0x205f\n || ch == 0x3000\n   )\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache

2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\npublic actual fun interface Comparator<T> {\n   @JsName(\"compare\")\n   public actual fun compare(a: T, b: T): Int\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport kotlin.annotation.AnnotationTarget.*\n\n@Target(FUNCTION)\n@Deprecated(\"Use inline extension function with body using dynamic\")\npublic annotation class nativeGetter\n\n@Target(FUNCTION)\n@Deprecated(\"Use inline extension function with body using dynamic\")\npublic annotation class nativeSetter\n\n@Target(FUNCTION)\n@Deprecated(\"Use inline extension function with body using dynamic\")\npublic annotation class nativeInvoke\n\n@Target(CLASS, FUNCTION, PROPERTY)\ninternal annotation class library(public val name: String = \"\")\n\n@Target(CLASS)\ninternal

annotation class marker\n\n/**\n * Gives a declaration (a function, a property or a class) specific name in JavaScript.\n *\n * This may be useful in the following cases:\n *\n * * There are two functions for which the compiler gives same name in JavaScript, you can\n *   mark one with `@JsName(...)` to prevent the compiler from reporting error.\n * * You are writing a JavaScript library in Kotlin. The compiler produces mangled names\n *   for functions with parameters, which is unnatural for usual JavaScript developer.\n *   You can put `@JsName(...)` on functions you want to be available from JavaScript.\n * * For some reason you want to rename declaration, e.g. there's common term in JavaScript\n *   for a concept provided by the declaration, which in uncommon in Kotlin.\n *\n * Example:\n *\n * ``` kotlin\n * class Person(val name: String) {\n *   fun hello() {\n *   println(\"Hello $name!\")\n *   }\n *\n *   @JsName(\"helloWithGreeting\")\n

 *   fun hello(greeting: String) {\n *   println(\"$greeting $name!\")\n *   }\n * }\n * ```\n *\n * @property name the name which compiler uses both for declaration itself and for all references to the declaration.\n *   It's required to denote a valid JavaScript identifier.\n *\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR,

PROPERTY_GETTER, PROPERTY_SETTER)\npublic actual annotation class JsName(actual val name: String)\n\n/**\n * Denotes an `external` declaration that must be imported from native JavaScript library.\n *\n * The compiler produces the code relevant for the target module system, for example, in case of CommonJS,\n * it will import the declaration via the `require(...)` function.\n *\n * The annotation can be used on top-level external declarations (classes, properties, functions) and files.\n * In case of file (which can't be `external`) the following rule applies: all the declarations in\n

 * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object\n * that contain all the declarations from the file.\n *\n * Example:\n *\n * ``` kotlin\n * @JsModule(\"jquery\")\n * external abstract class JQuery() {\n *   // some declarations here\n * }\n *\n * @JsModule(\"jquery\")\n * external fun JQuery(element: Element): JQuery\n * ```\n *\n * @property import name of a module to import declaration from.\n *   It is not interpreted by the Kotlin compiler, it's passed as is directly to the target module system.\n *\n * @see JsNonModule\n

 */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsModule(val import: String)\n\n/**\n * Denotes an `external` declaration that can be used without module system.\n *\n * By default, an `external` declaration is available regardless your target module system.\n * However, by applying [JsModule] annotation you can make a

 declaration unavailable to *plain* module system.\n * Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available\n * as an npm package.\n * To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation.\n *\n * For example:\n *\n * ``` kotlin\n * @JsModule(\"jquery\")\n * @JsNonModule\n * @JsName(\"$\")\n * external abstract class JQuery() {\n *   // some declarations here\n * }\n *\n * @JsModule(\"jquery\")\n * @JsNonModule\n * @JsName(\"$\")\n * external fun JQuery(element: Element): JQuery\n * ```\n *\n * @see JsModule\n

 */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsNonModule\n\n/**\n * Adds prefix to `external` declarations in a source file.\n *\n * JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects.\n * The compiler turns references to `external` declarations

 either to plain unprefixed names (in case of *plain* modules)\n * or to plain imports.\n * However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this.\n * You can tell the compiler to generate additional prefix before references to `external` declarations using the `@JsQualifier(...)`\n * annotation.\n *\n * Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.\n *\n * Example:\n *\n * ```\n * @file:JsQualifier(\"my.jsPackageName\")\n * package some.kotlinPackage\n *\n * external fun foo(x: Int)\n *\n * external fun bar(): String\n * ```\n *\n * @property value the qualifier to add to the declarations in the generated code.\n *   It must be a sequence of valid JavaScript identifiers separated by the `.` character.\n *   Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$0.f`.\n *\n * @see JsModule\n

 */\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.FILE)\npublic

 annotation class JsQualifier(val value: String)\n\n/**\n * Exports top-level declaration on JS platform.\n *\n * Compiled module exposes declarations that are marked with this annotation without name mangling.\n *\n * This annotation can be applied to either files or top-level declarations.\n *\n * It is currently prohibited to export the following kinds of declarations:\n *\n *   * `expect` declarations\n *   * inline functions with reified type parameters\n *   * suspend functions\n *   * secondary constructors without `@JsName`\n *   * extension properties\n *   * enum classes\n *   * annotation classes\n *\n * Signatures of exported declarations must only contain \"exportable\" types:\n *\n *   * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`\n *   * `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n *   * `Array<exportable-type>`\n *   * Function types with exportable parameters and return types\n

 *   * `external` or `@JsExport` classes and interfaces\n *   * Nullable counterparts of types above\n *   * Unit return type. Must not be nullable\n *\n * This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n */\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\n@SinceKotlin(\"1.3\")\npublic actual annotation class JsExport\n\n/**\n *

Forces a top-level property to be initialized eagerly, opposed to lazily on the first access to file and/or property.\n */\n@ExperimentalStdlibApi\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.PROPERTY)\n@SinceKotlin(\"1.6\")\n@Deprecated(\"This annotation is a temporal migration assistance and may be removed in the future releases, please consider filing an issue about the case where it is needed\")\npublic annotation class EagerInitialization\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n

 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.jvm\n\n// these are used in common generated code in stdlib\n\n// TODO: find how to deprecate these ones\n\n@Target(AnnotationTarget.FIELD)\n@Retention(AnnotationRetention.SOURCE)\npublic actual annotation class Volatile\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.SOURCE)\npublic actual annotation class Synchronized\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableCollection] interface.\n *\n * @param E the type of elements contained in the collection. The collection is invariant in its element type.\n

 */\npublic actual abstract class AbstractMutableCollection<E> protected actual constructor() : AbstractCollection<E>(), MutableCollection<E> {\n\n   actual abstract override fun add(element: E): Boolean\n\n   actual override fun remove(element: E): Boolean {\n   checkIsMutable()\n   val iterator = iterator()\n   while (iterator.hasNext()) {\n   if (iterator.next() == element) {\n   iterator.remove()\n   return true\n   }\n   }\n   return false\n   }\n\n   actual override fun addAll(elements: Collection<E>): Boolean {\n   checkIsMutable()\n   var modified = false\n   for (element in elements) {\n   if (add(element)) modified = true\n   }\n   return modified\n   }\n\n   actual override fun removeAll(elements: Collection<E>): Boolean {\n   checkIsMutable()\n   return (this as MutableIterable<E>).removeAll { it in elements }\n   }\n\n actual override fun retainAll(elements:

 Collection<E>): Boolean {\n   checkIsMutable()\n   return (this as MutableIterable<E>).removeAll { it !in elements }\n   }\n\n   actual override fun clear(): Unit {\n   checkIsMutable()\n   val iterator = this.iterator()\n   while (iterator.hasNext()) {\n   iterator.next()\n   iterator.remove()\n   }\n   }\n\n   @Deprecated(\"Provided so that subclasses inherit this function\", level = DeprecationLevel.HIDDEN)\n   @JsName(\"toJSON\")\n   protected fun toJSON(): Any = this.toArray()\n\n\n   /**\n   * This method is called every time when a mutating method is called on this mutable collection.\n   * Mutable collections that are built (frozen) must throw `UnsupportedOperationException`.\n   */\n   internal open fun checkIsMutable(): Unit { }\n}\n\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be

 found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT AbstractList\n * Copyright 2007 Google Inc.\n*/\n\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableList] interface.\n *\n * @param E the type of elements contained in the list. The list is invariant in its element type.\n */\npublic actual abstract class AbstractMutableList<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableList<E> {\n   protected var modCount: Int = 0\n\n   abstract override fun add(index: Int, element: E): Unit\n   abstract override fun removeAt(index: Int): E\n   abstract override fun set(index: Int, element: E): E\n\n   /**\n   * Adds the specified element to the end of this list.\n   *\n   * @return `true` because the list is always modified as the result of this operation.\n   */\n   actual override fun add(element: E): Boolean {\n   checkIsMutable()\n   add(size, element)\n   return true\n   }\n\n

 actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n   AbstractList.checkPositionIndex(index, size)\n\n   checkIsMutable()\n   var _index = index\n   var changed = false\n   for (e in elements) {\n   add(_index++, e)\n   changed = true\n   }\n   return changed\n   }\n\n   actual override fun clear() {\n   checkIsMutable()\n   removeRange(0, size)\n   }\n\n   actual

override fun removeAll(elements: Collection<E>): Boolean {\n   checkIsMutable()\n   return removeAll { it in elements }\n   }\n\n   actual override fun retainAll(elements: Collection<E>): Boolean {\n   checkIsMutable()\n   return removeAll { it !in elements }\n   }\n\n\n   actual override fun iterator(): MutableIterator<E> = IteratorImpl()\n\n   actual override fun contains(element: E): Boolean = indexOf(element) >= 0\n\n   actual override fun indexOf(element: E): Int {\n   for (index in 0..lastIndex) {\n   if (get(index) == element) {\n   return index\n   }\n   }\n   return -1\n   }\n\n   actual override fun lastIndexOf(element: E): Int {\n   for (index in lastIndex downTo 0) {\n   if (get(index) == element) {\n   return index\n   }\n   }\n   return -1\n   }\n\n   actual override fun listIterator(): MutableListIterator<E> = listIterator(0)\n   actual override fun listIterator(index: Int): MutableListIterator<E> = ListIteratorImpl(index)\n\n\n   actual override fun subList(fromIndex: Int, toIndex: Int): MutableList<E> = SubList(this, fromIndex, toIndex)\n\n   /**\n   * Removes the range of elements from this list starting from [fromIndex] and ending with but not including [toIndex].\n   */\n   protected open fun removeRange(fromIndex: Int, toIndex: Int) {\n   val iterator = listIterator(fromIndex)\n   repeat(toIndex - fromIndex) {\n   iterator.next()\n   iterator.remove()\n   }\n   }\n\n   /**\n   * Compares this list with another list instance with the ordered structural equality.\n   *\n   * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\n   */\n   override fun equals(other: Any?): Boolean {\n   if (other === this) return true\n   if (other !is List<*>) return false\n\n   return AbstractList.orderedEquals(this, other)\n   }\n\n   /**\n   * Returns the hash code value for this list.\n   */\n   override fun hashCode(): Int = AbstractList.orderedHashCode(this)\n\n\n   private open inner class IteratorImpl : MutableIterator<E> {\n   /** the index of the item that will be returned on the next call to [next]`()` */\n   protected var index = 0\n   /** the index of the item that was returned on the previous call to [next]`()`\n   * or [ListIterator.previous]`()` (for `ListIterator`),\n   * -1 if no such item exists\n   */\n   protected var last = -1\n\n   override fun hasNext(): Boolean = index < size\n\n   override fun next(): E {\n   if (!hasNext()) throw NoSuchElementException()\n   last = index++\n   return get(last)\n   }\n\n   override fun remove() {\n   check(last != -1) { \"Call next() or previous() before removing element from the iterator.\" }\n\n   removeAt(last)\n   index = last\n   last = -1\n   }\n   }\n\n   /**\n   * Implementation of `MutableListIterator` for abstract lists.\n   */\n   private inner class ListIteratorImpl(index: Int) : IteratorImpl(), MutableListIterator<E> {\n   init {\n   AbstractList.checkPositionIndex(index, this@AbstractMutableList.size)\n   this.index = index\n   }\n\n   override fun hasPrevious(): Boolean = index > 0\n\n   override fun nextIndex(): Int = index\n\n   override fun previous(): E {\n   if (!hasPrevious()) throw NoSuchElementException()\n\n   last = --index\n   return get(last)\n   }\n\n   override fun previousIndex(): Int = index - 1\n\n   override fun add(element: E) {\n   add(index, element)\n   index++\n   last = -1\n   }\n\n   override fun set(element: E) {\n   check(last != -1) { \"Call next() or previous() before updating element value with the iterator.\" }\n   set(last, element)\n   }\n   }\n\n   private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) : AbstractMutableList<E>(), RandomAccess {\n   private var _size: Int = 0\n\n   init {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)\n   this._size = toIndex - fromIndex\n   }\n\n   override fun add(index: Int, element: E) {\n   AbstractList.checkPositionIndex(index, _size)\n\n   list.add(fromIndex + index, element)\n   _size++\n   }\n\n   override fun get(index: Int): E {\n   AbstractList.checkElementIndex(index, _size)\n\n   return list[fromIndex + index]\n   }\n\n   override fun removeAt(index: Int): E {\n   AbstractList.checkElementIndex(index, _size)\n\n   val result = list.removeAt(fromIndex + index)\n   _size--\n   return result\n   }\n\n   override fun set(index: Int, element: E): E {\n   AbstractList.checkElementIndex(index, _size)\n\n   return list.set(fromIndex + index, element)\n   }\n\n   override val size: Int get() = _size\n\n   internal override fun checkIsMutable(): Unit = list.checkIsMutable()\n   }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language

contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT AbstractMap\n * Copyright 2007 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableMap] interface.\n *\n * The implementor is required to implement [entries] property, which should return mutable set of map entries, and [put] function.\n *\n * @param K the type of map keys. The map is invariant in its key type.\n * @param V the type of map values. The map is invariant in its value type.\n */\npublic actual abstract class AbstractMutableMap<K, V> protected actual constructor() : AbstractMap<K, V>(), MutableMap<K, V> {\n\n   /**\n   * A mutable [Map.Entry] shared by several [Map] implementations.\n   */\n   internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {\n   constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)\n\n   private var _value = value\n\n   override val value: V get() = _value\n\n   override fun setValue(newValue: V): V {\n   // Should check if the map containing this entry is mutable.\n   // However, to not increase entry memory footprint it might be worthwhile not to check it here and\n   // force subclasses that implement `build()` (freezing) operation to implement their own `MutableEntry`.\n//   this@AbstractMutableMap.checkIsMutable()\n   val oldValue = this._value\n   this._value = newValue\n   return oldValue\n   }\n\n   override fun hashCode(): Int = entryHashCode(this)\n   override fun toString(): String = entryToString(this)\n   override fun equals(other: Any?): Boolean = entryEquals(this, other)\n\n   }\n\n   // intermediate abstract class to workaround KT-43321\n   internal abstract class AbstractEntrySet<E : Map.Entry<K, V>, K, V> : AbstractMutableSet<E>() {\n   final override fun contains(element: E): Boolean = containsEntry(element)\n   abstract fun containsEntry(element: Map.Entry<K, V>): Boolean\n\n   final override fun remove(element: E): Boolean = removeEntry(element)\n   abstract fun removeEntry(element: Map.Entry<K, V>): Boolean\n   }\n\n   actual override fun clear() {\n   entries.clear()\n   }\n\n   private var _keys: MutableSet<K>? = null\n   actual override val keys: MutableSet<K>\n   get() {\n   if (_keys == null) {\n   _keys = object : AbstractMutableSet<K>() {\n   override fun add(element: K): Boolean = throw UnsupportedOperationException(\"Add is not supported on keys\")\n   override fun clear() {\n   this@AbstractMutableMap.clear()\n   }\n\n   override operator fun contains(element: K): Boolean = containsKey(element)\n\n   override operator fun iterator(): MutableIterator<K> {\n   val entryIterator = entries.iterator()\n   return object : MutableIterator<K> {\n   override fun hasNext(): Boolean = entryIterator.hasNext()\n   override fun next(): K = entryIterator.next().key\n   override fun remove() = entryIterator.remove()\n   }\n   }\n\n   override fun remove(element: K): Boolean {\n   checkIsMutable()\n   if (containsKey(element)) {\n   this@AbstractMutableMap.remove(element)\n   return true\n   }\n   return false\n   }\n\n   override val size: Int get() = this@AbstractMutableMap.size\n\n   override fun checkIsMutable(): Unit = this@AbstractMutableMap.checkIsMutable()\n   }\n   }\n   return _keys!!\n   }\n\n   actual abstract override fun put(key: K, value: V): V?\n\n   actual override fun putAll(from: Map<out K, V>) {\n   checkIsMutable()\n   for ((key, value) in from) {\n   put(key, value)\n   }\n   }\n\n   private var _values: MutableCollection<V>? = null\n   actual override val values: MutableCollection<V>\n   get() {\n   if (_values == null) {\n   _values = object : AbstractMutableCollection<V>() {\n   override fun add(element: V): Boolean = throw UnsupportedOperationException(\"Add is not supported on values\")\n   override fun clear() = this@AbstractMutableMap.clear()\n   override operator fun contains(element: V): Boolean = containsValue(element)\n\n   override operator fun iterator(): MutableIterator<V> {\n   val entryIterator = entries.iterator()\n   return object : MutableIterator<V> {\n   override fun hasNext(): Boolean = entryIterator.hasNext()\n   override fun

next(): V = entryIterator.next().value\n   override fun remove() = entryIterator.remove()\n
}\n   }\n\n   override val size: Int get() = this@AbstractMutableMap.size\n\n
override fun checkIsMutable(): Unit = this@AbstractMutableMap.checkIsMutable()\n   }\n   }\n
return _values!!\n   }\n\n   actual override fun remove(key: K): V? {\n   checkIsMutable()\n   val iter =
entries.iterator()\n   while (iter.hasNext()) {\n   val entry = iter.next()\n   val k = entry.key\n   if
(key == k) {\n   val value = entry.value\n   iter.remove()\n   return value\n   }\n
}\n   return null\n   }\n\n\n   /**\n   * This method is called every time when a mutating method is called on
this mutable map.\n   * Mutable maps that are built (frozen) must throw `UnsupportedOperationException`.\n
/\n   internal open fun checkIsMutable(): Unit { }\n}\n\n","/\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Provides a skeletal
implementation of the [MutableSet] interface.\n *\n * @param E the type of elements contained in the set. The set is
invariant in its element type.\n */\npublic actual abstract class AbstractMutableSet<E> protected actual constructor()
: AbstractMutableCollection<E>(), MutableSet<E> {\n\n   /**\n   * Compares this set with another set instance
with the unordered structural equality.\n   *\n   * @return `true`, if [other] instance is a [Set] of the same size, all
elements of which are contained in this set.\n   */\n   override fun equals(other: Any?): Boolean {\n   if (other
=== this) return true\n   if (other !is
Set<*>) return false\n   return AbstractSet.setEquals(this, other)\n   }\n\n   /**\n   * Returns the hash code
value for this set.\n   */\n   override fun hashCode(): Int = AbstractSet.unorderedHashCode(this)\n\n}","/*\n *
Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.collections\n\n/**\n * Provides a [MutableList] implementation, which uses a resizable array as its backing
storage.\n *\n * This implementation doesn't provide a way to manage capacity, as backing JS array is resizeable
itself.\n * There is no speed advantage to pre-allocating array sizes in JavaScript, so this implementation does not
include any of the\n * capacity and \"growth increment\" concepts.\n */\npublic actual open class ArrayList<E>
internal constructor(private var array: Array<Any?>) : AbstractMutableList<E>(), MutableList<E>,
RandomAccess {\n   private var isReadOnly: Boolean = false\n\n   /**\n   * Creates an empty [ArrayList].\n
*/\n   public actual constructor() : this(emptyArray()) { }\n\n   /**\n   * Creates an empty [ArrayList].\n   *
@param initialCapacity initial capacity (ignored)\n   */\n   public actual constructor(initialCapacity: Int) :
this(emptyArray()) { }\n\n   /**\n   * Creates an [ArrayList] filled from the [elements] collection.\n   */\n   public
actual constructor(elements: Collection<E>) : this(elements.toTypedArray<Any?>()) { }\n\n   @PublishedApi\n
internal fun build(): List<E> {\n   checkIsMutable()\n   isReadOnly = true\n   return this\n   }\n\n   /**
Does nothing in this ArrayList implementation. */\n   public actual fun trimToSize() { }\n\n   /** Does nothing in
this ArrayList implementation. */\n   public actual fun ensureCapacity(minCapacity: Int) { }\n\n   actual override
val size: Int get() = array.size\n   @Suppress(\"UNCHECKED_CAST\")\n
actual override fun get(index: Int): E = array[rangeCheck(index)] as E\n   actual override fun set(index: Int,
element: E): E {\n   checkIsMutable()\n   rangeCheck(index)\n   @Suppress(\"UNCHECKED_CAST\")\n
return array[index].apply { array[index] = element } as E\n   }\n\n   actual override fun add(element: E): Boolean
{\n   checkIsMutable()\n   array.asDynamic().push(element)\n   modCount++\n   return true\n   }\n\n
actual override fun add(index: Int, element: E): Unit {\n   checkIsMutable()\n
array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n   modCount++\n   }\n\n   actual override
fun addAll(elements: Collection<E>): Boolean {\n   checkIsMutable()\n   if (elements.isEmpty()) return
false\n\n   array += elements.toTypedArray<Any?>()\n   modCount++\n   return true\n   }\n\n   actual
override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
checkIsMutable()\n   insertionRangeCheck(index)\n\n   if (index == size) return addAll(elements)\n   if
(elements.isEmpty()) return false\n   when (index) {\n   size -> return addAll(elements)\n   0 -> array
= elements.toTypedArray<Any?>() + array\n   else -> array = array.copyOfRange(0,
index).asDynamic().concat(elements.toTypedArray<Any?>(), array.copyOfRange(index, size))\n   }\n\n

modCount++\n   return true\n   }\n\n   actual override fun removeAt(index: Int): E {\n   checkIsMutable()\n   rangeCheck(index)\n   modCount++\n   return if (index == lastIndex)\n   array.asDynamic().pop()\n   else\n   array.asDynamic().splice(index, 1)[0]\n   }\n\n   actual override fun remove(element: E): Boolean {\n   checkIsMutable()\n   for (index in array.indices) {\n   if (array[index] == element) {\n   array.asDynamic().splice(index, 1)\n   modCount++\n   return true\n   }\n   }\n   return false\n   }\n\n   override fun removeRange(fromIndex: Int, toIndex: Int) {\n   checkIsMutable()\n   modCount++\n   array.asDynamic().splice(fromIndex, toIndex - fromIndex)\n   }\n\n   actual override fun clear() {\n   checkIsMutable()\n   array = emptyArray()\n   modCount++\n   }\n\n\n   actual override fun indexOf(element: E): Int = array.indexOf(element)\n\n   actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)\n\n   override fun toString() = arrayToString(array)\n\n   @Suppress(\"UNCHECKED_CAST\")\n   override fun <T> toArray(array: Array<T>): Array<T> {\n   if (array.size < size) {\n   return toArray() as Array<T>\n   }\n\n   (this.array as Array<T>).copyInto(array)\n\n   if (array.size > size) {\n   array[size] = null as T // null-terminate\n   }\n\n   return array\n   }\n\n   override fun toArray(): Array<Any?> {\n   return js(\"[]\").slice.call(array)\n   }\n\n   internal override fun checkIsMutable() {\n   if (isReadOnly) throw UnsupportedOperationException()\n   }\n\n   private fun rangeCheck(index: Int) = index.apply {\n   AbstractList.checkElementIndex(index, size)\n   }\n\n   private fun insertionRangeCheck(index: Int) = index.apply {\n   AbstractList.checkPositionIndex(index, size)\n   }\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {\n   if (getStableSortingIsSupported()) {\n   array.asDynamic().sort(comparison)\n   } else {\n   mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\n   }\n}\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\n   if (getStableSortingIsSupported()) {\n   val comparison = { a: T, b: T -> comparator.compare(a, b) }\n   array.asDynamic().sort(comparison)\n   } else {\n   mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\n   }\n}\n\ninternal fun <T> sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int, comparator: Comparator<in T>) {\n   if (fromIndex < toIndex - 1) {\n   mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1, comparator)\n   }\n}\n\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\n   if (getStableSortingIsSupported()) {\n   val comparison = { a: T, b: T -> a.compareTo(b) }\n   array.asDynamic().sort(comparison)\n   } else {\n   mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())\n   }\n}\n\nprivate var _stableSortingIsSupported: Boolean? = null\nprivate fun getStableSortingIsSupported(): Boolean {\n   _stableSortingIsSupported?.let { return it }\n   _stableSortingIsSupported = false\n\n   val array = js(\"[]\").unsafeCast<Array<Int>>()\n   // known implementations may use stable sort for arrays of up to 512 elements\n   // so we create slightly more elements to test stability\n   for (index in 0 until 600) array.asDynamic().push(index)\n   val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }\n   array.asDynamic().sort(comparison)\n   for (index in 1 until array.size) {\n   val a = array[index - 1]\n   val b = array[index]\n   if ((a and 3) == (b and 3) && a >= b) return false\n   }\n   _stableSortingIsSupported = true\n   return true\n}\n\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator: Comparator<in T>) {\n   val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n   val result = mergeSort(array, buffer, start, endInclusive, comparator)\n   if (result !== array) {\n   for (i in start..endInclusive) array[i] = result[i]\n   }\n}\n\n// Both start and end are inclusive indices.\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n   if (start == end) {\n   return array\n   }\n\n   val median = (start + end) / 2\n   val left = mergeSort(array, buffer, start, median, comparator)\n   val right = mergeSort(array, buffer, median + 1, end, comparator)\n\n   val target = if (left === buffer) array else buffer\n\n   // Merge.\n   var leftIndex = start\n   var rightIndex = median + 1\n   for (i

in start..end) {\n   when {\n   leftIndex <= median && rightIndex <= end -> {\n   val leftValue = left[leftIndex]\n   val rightValue = right[rightIndex]\n\n   if (comparator.compare(leftValue, rightValue) <= 0) {\n   target[i] = leftValue\n   leftIndex++\n   } else {\n   target[i]
 = rightValue\n   rightIndex++\n   }\n   }\n   leftIndex <= median -> {\n   target[i] = left[leftIndex]\n   leftIndex++\n   }\n   else /* rightIndex <= end */ -> {\n   target[i] = right[rightIndex]\n   rightIndex++\n   Unit // TODO: Fix KT-31506\n   }\n   }\n
}\n\n   return target\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin(\"1.3\")\n@kotlin.js.JsName(\"contentDeepHashCodeImpl\")\ninternal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {\n   if (this == null) return 0\n   var result = 1\n   for (element in this) {\n   val elementHash = when {\n   element == null -> 0\n   isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n\n   element is UByteArray -> element.contentHashCode()\n   element is UShortArray -> element.contentHashCode()\n   element is UIntArray   -> element.contentHashCode()\n   element is ULongArray -> element.contentHashCode()\n\n   else   -> element.hashCode()\n   }\n\n   result = 31 * result + elementHash\n   }\n   return result\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal interface EqualityComparator {\n   /**\n   * Subclasses must override to return a value indicating\n   * whether or not two keys or values are equal.\n   */\n   abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n   /**\n   * Subclasses must override to return the hash code of a given key.\n   */\n   abstract fun getHashCode(value: Any?): Int\n\n\n   object HashCode : EqualityComparator {\n   override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\n\n   override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n   }\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT AbstractHashMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap] interface.\n *\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values] and [entries] collections.\n */\n// Classes that extend HashMap and implement `build()`
 (freezing) operation\n// have to make sure mutating methods check `checkIsMutable`.\npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {\n\n   private inner class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n\n   override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException(\"Add is not supported on entries\")\n   override fun clear() {\n   this@HashMap.clear()\n   }\n\n   override fun containsEntry(element: Map.Entry<K, V>): Boolean = this@HashMap.containsEntry(element)\n\n   override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n\n   override fun removeEntry(element: Map.Entry<K, V>): Boolean {\n   if (contains(element)) {\n   this@HashMap.remove(element.key)\n   return true\n   }\n   return false\n   }\n\n   override val size: Int get() = this@HashMap.size\n
    }\n\n\n   /**\n   * Internal implementation of the map: either string-based or hashcode-based.\n   */\n   private val internalMap: InternalMap<K, V>\n\n   private val equality: EqualityComparator\n\n   internal constructor(internalMap: InternalMap<K, V>) : super() {\n   this.internalMap = internalMap\n   this.equality = internalMap.equality\n   }\n\n   /**\n   * Constructs an empty [HashMap] instance.\n   */\n   actual constructor() : this(InternalHashCodeMap(EqualityComparator.HashCode))\n\n   /**\n   * Constructs an empty [HashMap] instance.\n   *\n   * @param initialCapacity the initial capacity (ignored)\n   * @param loadFactor   the load

factor (ignored)\n   *\n   * @throws IllegalArgumentException if the initial capacity or load factor are negative\n   */\n   actual constructor(initialCapacity: Int, loadFactor: Float) : this() {\n   // This implementation of HashMap has no need of load factors or capacities.\n   require(initialCapacity

>= 0) { \"Negative initial capacity: $initialCapacity\" }\n   require(loadFactor >= 0) { \"Non-positive load factor: $loadFactor\" }\n   }\n\n   actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n   /**\n   * Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\n   */\n   actual constructor(original: Map<out K, V>) : this() {\n   this.putAll(original)\n   }\n\n   actual override fun clear() {\n   internalMap.clear()\n//   structureChanged(this)\n   }\n\n   actual override fun containsKey(key: K): Boolean = internalMap.contains(key)\n\n   actual override fun containsValue(value: V): Boolean = internalMap.any { equality.equals(it.value, value) }\n\n   private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? = null\n   actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n   get() {\n   if (_entries == null) {\n   _entries

= createEntrySet()\n   }\n   return _entries!!\n   }\n\n   internal open fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n   actual override operator fun get(key: K): V? = internalMap.get(key)\n\n   actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\n\n   actual override fun remove(key: K): V? = internalMap.remove(key)\n\n   actual override val size: Int get() = internalMap.size\n\n}\n\n/**\n * Constructs the specialized implementation of [HashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n */\npublic fun <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {\n   return HashMap<String, V>(InternalStringMap(EqualityComparator.HashCode)).apply { putAll(pairs) }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found

in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT HashSet\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.\n */\n// Classes that extend HashSet and implement `build()` (freezing) operation\n// have to make sure mutating methods check `checkIsMutable`.\npublic actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {\n\n   internal val map: HashMap<E, Any>\n\n   /**\n   * Constructs a new empty [HashSet].\n   */\n   actual constructor() {\n   map = HashMap<E, Any>()\n   }\n\n   /**\n   * Constructs a new [HashSet] filled with the elements of the specified collection.\n   */\n   actual constructor(elements: Collection<E>) {\n   map = HashMap<E, Any>(elements.size)\n   addAll(elements)\n   }\n\n   /**\n   * Constructs a new empty [HashSet].\n   *\n   * @param initialCapacity the initial capacity (ignored)\n   * @param

loadFactor   the load factor (ignored)\n   *\n   * @throws IllegalArgumentException if the initial capacity or load factor are negative\n   */\n   actual constructor(initialCapacity: Int, loadFactor: Float) {\n   map = HashMap<E, Any>(initialCapacity, loadFactor)\n   }\n\n   actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n   /**\n   * Protected constructor to specify the underlying map. This is used by\n   * LinkedHashSet.\n\n   * @param map underlying map to use.\n   */\n   internal constructor(map: HashMap<E, Any>) {\n   this.map = map\n   }\n\n   actual override fun add(element: E): Boolean {\n   val old = map.put(element, this)\n   return old == null\n   }\n\n   actual override fun clear() {\n   map.clear()\n   }\n\n//   public override fun clone(): Any {\n//   return HashSet<E>(this)\n//   }\n\n   actual override operator fun contains(element: E): Boolean = map.containsKey(element)\n\n   actual

override fun isEmpty(): Boolean = map.isEmpty()\n\n   actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\n\n   actual override fun remove(element: E): Boolean = map.remove(element) != null\n\n   actual override val size: Int get() = map.size\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [HashSet] with the specified [String] elements,\n * which elements the keys as properties of JS object without hashing them.\n */\npublic fun stringSetOf(vararg elements: String): HashSet<String> {\n   return HashSet(stringMapOf<Any>()).apply { addAll(elements) }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that

can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT InternalHashCodeMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\nimport kotlin.collections.AbstractMutableMap.SimpleEntry\n\n/**\n * A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any\n * key type.\n *\n *\n * Implementation notes:\n *\n *\n * A key's hashCode is the index in backingMap which should contain that key. Since several keys may\n * have the same hash, each value in hashCodeMap is actually an array containing all entries whose\n * keys share the same hash.\n */\ninternal class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n   private var backingMap: dynamic = createJsMap()\n   override var size: Int = 0\n   private set\n\n   override fun put(key: K, value: V): V? {\n   val hashCode = equality.getHashCode(key)\n   val chainOrEntry = getChainOrEntryOrNull(hashCode)\n   if (chainOrEntry == null) {\n   // This is a new chain, put it to the map.\n   backingMap[hashCode] = SimpleEntry(key, value)\n   } else {\n   if (chainOrEntry !is Array<*>) {\n   // It is an entry\n   val entry: SimpleEntry<K, V> = chainOrEntry\n   if (equality.equals(entry.key, key)) {\n   return entry.setValue(value)\n   } else {\n   backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\n   size++\n   return null\n   }\n   } else {\n   // Chain already exists, perhaps key also exists.\n   val chain: Array<MutableEntry<K, V>> = chainOrEntry\n   val entry = chain.findEntryInChain(key)\n   if (entry != null) {\n   return entry.setValue(value)\n   }\n   chain.asDynamic().push(SimpleEntry(key, value))\n   }\n   }\n   size++\n//   structureChanged(host)\n   return null\n   }\n\n   override fun remove(key: K): V? {\n   val hashCode = equality.getHashCode(key)\n   val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\n   if (chainOrEntry !is Array<*>) {\n   val entry: MutableEntry<K, V> = chainOrEntry\n   if (equality.equals(entry.key, key)) {\n   jsDeleteProperty(backingMap, hashCode)\n   size--\n   return entry.value\n   } else {\n   return null\n   }\n   } else {\n   val chain: Array<MutableEntry<K, V>> = chainOrEntry\n   for (index in chain.indices) {\n   val entry = chain[index]\n   if (equality.equals(key, entry.key)) {\n   if (chain.size == 1) {\n   chain.asDynamic().length = 0\n   // remove the whole array\n   jsDeleteProperty(backingMap, hashCode)\n   } else {\n   // splice out the entry we're removing\n   chain.asDynamic().splice(index, 1)\n   }\n   size--\n//   structureChanged(host)\n   return entry.value\n   }\n   }\n   }\n   return null\n   }\n\n   override fun clear() {\n   backingMap = createJsMap()\n   size = 0\n   }\n\n   override fun contains(key: K): Boolean = getEntry(key) != null\n\n   override fun get(key: K): V? = getEntry(key)?.value\n\n   private fun getEntry(key: K): MutableEntry<K, V>? {\n   val chainOrEntry = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n   if (chainOrEntry !is Array<*>) {\n   val entry: MutableEntry<K, V> = chainOrEntry\n   if (equality.equals(entry.key, key)) {\n   return entry\n   } else {\n   return null\n   }\n   } else {\n   val chain: Array<MutableEntry<K, V>> = chainOrEntry\n   return chain.findEntryInChain(key)\n   }\n   }\n\n   private fun Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n   firstOrNull { entry ->\n   equality.equals(entry.key, key) }\n\n   override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n\n   return object : MutableIterator<MutableEntry<K, V>> {\n   var state = -1 // -1 not ready, 0 - ready, 1 - done\n\n   val keys: Array<String> = js(\"Object\").keys(backingMap)\n   var keyIndex = -1\n\n   var chainOrEntry: dynamic = null\n   var isChain = false\n   var itemIndex = -1\n   var lastEntry: MutableEntry<K, V>? = null\n\n   private fun computeNext(): Int {\n   if (chainOrEntry != null && isChain) {\n   val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n   if (++itemIndex < chainSize)\n   return 0\n   }\n\n   if (++keyIndex < keys.size) {\n   chainOrEntry = backingMap[keys[keyIndex]]\n   isChain = chainOrEntry is Array<*>\n   itemIndex = 0\n   return 0\n   } else {\n   chainOrEntry = null\n   return 1\n   }\n   }\n\n   override fun hasNext(): Boolean {\n   if (state == -1)\n   state = computeNext()\n

return state == 0\n   }\n\n   override fun next(): MutableEntry<K, V> {\n   if (!hasNext()) throw NoSuchElementException()\n   val lastEntry = if (isChain) {\n chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n   } else {\n chainOrEntry.unsafeCast<MutableEntry<K, V>>()\n   }\n   this.lastEntry = lastEntry\n state = -1\n   return lastEntry\n   }\n\n   override fun remove() {\n   checkNotNull(lastEntry)\n   this@InternalHashCodeMap.remove(lastEntry!!.key)\n   lastEntry = null\n   // the chain being iterated just got modified by InternalHashCodeMap.remove\n   itemIndex--\n   }\n   }\n   }\n\n   private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n   val chainOrEntry = backingMap[hashCode]\n   return if (chainOrEntry === undefined) null else chainOrEntry\n   }\n\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * The common interface of [InternalStringMap] and [InternalHashCodeMap].\n */\ninternal interface InternalMap<K, V> : MutableIterable<MutableMap.MutableEntry<K, V>> {\n   val equality: EqualityComparator\n   val size: Int\n   operator fun contains(key: K): Boolean\n

    operator fun get(key: K): V?\n\n   fun put(key: K, value: V): V?\n   fun remove(key: K): V?\n   fun clear(): Unit\n\n   fun createJsMap(): dynamic {\n   val result = js(\"Object.create(null)\")\n   // force to switch object representation to dictionary mode\n   result[\"foo\"] = 1\n   jsDeleteProperty(result, \"foo\")\n   return result\n   }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT InternalStringMap\n * Copyright 2008 Google Inc.\n */\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * A simple wrapper around JavaScript Map for key type is string.\n *\n * Though this map is instantiated only with K=String, the K type is not fixed to String statically,\n * because we want to have it erased to Any? in order not to

 generate type-safe override bridges for\n * [get], [contains], [remove] etc, if they ever are generated.\n */\ninternal class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n   private var backingMap: dynamic = createJsMap()\n   override var size: Int = 0\n   private set\n\n//   /**\n//   * A mod count to track 'value' replacements in map to ensure that the 'value' that we have in the\n//   * iterator entry is guaranteed to be still correct.\n//   * This is to optimize for the common scenario where the values are not modified during\n//   * iterations where the entries are never stale.\n//   */\n//   private var valueMod: Int = 0\n\n   override operator fun contains(key: K): Boolean {\n   if (key !is String) return false\n   return backingMap[key] !== undefined\n   }\n\n   override operator fun get(key: K): V? {\n   if (key !is String) return null\n   val value = backingMap[key]\n   return if (value

 !== undefined) value.unsafeCast<V>() else null\n   }\n\n   override fun put(key: K, value: V): V? {\n   require(key is String)\n   val oldValue = backingMap[key]\n   backingMap[key] = value\n\n   if (oldValue === undefined) {\n   size++\n//   structureChanged(host)\n   return null\n   } else {\n//   valueMod++\n   return oldValue.unsafeCast<V>()\n   }\n   }\n\n   override fun remove(key: K): V? {\n   if (key !is String) return null\n   val value = backingMap[key]\n   if (value !== undefined) {\n   jsDeleteProperty(backingMap, key)\n   size--\n//   structureChanged(host)\n   return value.unsafeCast<V>()\n   } else {\n//   valueMod++\n   return null\n   }\n   }\n\n   override fun clear() {\n   backingMap = createJsMap()\n   size = 0\n   }\n\n   override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n

        return object : MutableIterator<MutableEntry<K, V>> {\n   private val keys: Array<String> = js(\"Object\").keys(backingMap)\n   private val iterator = keys.iterator()\n   private var lastKey: String? = null\n\n   override fun hasNext(): Boolean = iterator.hasNext()\n\n   override fun next(): MutableEntry<K, V> {\n   val key = iterator.next()\n   lastKey = key\n   @Suppress(\"UNCHECKED_CAST\")\n   return newMapEntry(key as K)\n   }\n\n   override fun remove() {\n   @Suppress(\"UNCHECKED_CAST\")\n

this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n   }\n   }\n   }\n\n   private fun
newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n   override val key: K get() =
key\n   override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n   override fun
setValue(newValue:

 V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n\n   override fun hashCode(): Int =
AbstractMap.entryHashCode(this)\n   override fun toString(): String = AbstractMap.entryToString(this)\n
override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this, other)\n   }\n}\n","/*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT
LinkedHashMap\n * Copyright 2008 Google Inc.\n */\npackage kotlin.collections\n\nimport
kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap]
interface, which additionally preserves the insertion order\n * of entries during the iteration.\n *\n * The insertion
order is preserved by maintaining a doubly-linked list of all of its entries.\n */\npublic actual open class
LinkedHashMap<K, V> : HashMap<K,

 V>, MutableMap<K, V> {\n\n   /**\n   * The entry we use includes next/prev pointers for a doubly-linked
circular\n   * list with a head node. This reduces the special cases we have to deal with\n   * in the list
operations.\n\n   * Note that we duplicate the key from the underlying hash map so we can find\n   * the eldest
entry. The alternative would have been to modify HashMap so more\n   * of the code was directly usable here, but
this would have added some\n   * overhead to HashMap, or to reimplement most of the HashMap code here with\n
 * small modifications. Paying a small storage cost only if you use\n   * LinkedHashMap and minimizing code size
seemed like a better tradeoff\n   */\n   private inner class ChainEntry<K, V>(key: K, value: V) :
AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n   internal var next: ChainEntry<K, V>? = null\n
internal var prev: ChainEntry<K, V>? = null\n\n   override fun setValue(newValue: V): V {\n
     this@LinkedHashMap.checkIsMutable()\n   return super.setValue(newValue)\n   }\n   }\n\n
private inner class EntrySet : AbstractEntrySet<MutableEntry<K, V>, K, V>() {\n\n   private inner class
EntryIterator : MutableIterator<MutableEntry<K, V>> {\n   // The last entry that was returned from this
iterator.\n   private var last: ChainEntry<K, V>? = null\n\n   // The next entry to return from this
iterator.\n   private var next: ChainEntry<K, V>? = null\n\n   init {\n   next = head\n//
recordLastKnownStructure(map, this)\n   }\n\n   override fun hasNext(): Boolean {\n   return
next !== null\n   }\n\n   override fun next(): MutableEntry<K, V> {\n//
checkStructuralChange(map, this)\n   if (!hasNext()) throw NoSuchElementException()\n\n   val
current = next!!\n   last = current\n

     next = current.next.takeIf { it !== head }\n   return current\n   }\n\n   override fun remove()
{\n   check(last != null)\n   this@EntrySet.checkIsMutable()\n//
checkStructuralChange(map, this)\n\n   last!!.remove()\n   map.remove(last!!.key)\n//
recordLastKnownStructure(map, this)\n   last = null\n   }\n   }\n\n   override fun add(element:
MutableEntry<K, V>): Boolean = throw UnsupportedOperationException(\"Add is not supported on entries\")\n
override fun clear() {\n   this@LinkedHashMap.clear()\n   }\n\n   override fun containsEntry(element:
Map.Entry<K, V>): Boolean = this@LinkedHashMap.containsEntry(element)\n\n   override operator fun
iterator(): MutableIterator<MutableEntry<K, V>> = EntryIterator()\n\n   override fun removeEntry(element:
Map.Entry<K, V>): Boolean {\n   checkIsMutable()\n

        if (contains(element)) {\n   this@LinkedHashMap.remove(element.key)\n   return true\n
    }\n   return false\n   }\n\n   override val size: Int get() = this@LinkedHashMap.size\n\n   override
fun checkIsMutable(): Unit = this@LinkedHashMap.checkIsMutable()\n   }\n\n\n   /*\n   * The head of the insert
order chain, which is a doubly-linked circular\n   * list.\n   *\n   * The most recently inserted node is at the end of the
chain, ie.\n   * chain.prev.\n   */\n   private var head: ChainEntry<K, V>? = null\n\n   /**\n   * Add this node to
the end of the chain.\n   */\n   private fun ChainEntry<K, V>.addToEnd() {\n   // This entry is not in the list.\n
  check(next == null && prev == null)\n\n   val _head = head\n   if (_head == null) {\n   head = this\n

next = this\n   prev = this\n   } else {\n   // Chain is valid.\n   val _tail = checkNotNull(_head.prev)\n

         // Update me.\n   prev = _tail\n   next = _head\n   // Update my new siblings: current head and old tail\n   _head.prev = this\n   _tail.next = this\n   }\n   }\n\n   /**\n   * Remove this node from the chain it is a part of.\n   */\n   private fun ChainEntry<K, V>.remove() {\n   if (this.next === this) {\n   // if this is single element, remove head\n   head = null\n   } else {\n   if (head === this) {\n   // if this is first element, move head to next\n   head = next\n   }\n   next!!.prev = prev\n   prev!!.next = next\n   }\n   next = null\n   prev = null\n   }\n\n   /*\n   * The hashmap that keeps track of our entries and the chain. Note that we\n   * duplicate the key here to eliminate changes to HashMap and minimize the\n   * code here, at the expense of additional space.\n   */\n   private

 val map: HashMap<K, ChainEntry<K, V>>\n\n   private var isReadOnly: Boolean = false\n\n   /**\n   * Constructs an empty [LinkedHashMap] instance.\n   */\n   actual constructor() : super() {\n   map = HashMap<K, ChainEntry<K, V>>()\n   }\n\n   internal constructor(backingMap: HashMap<K, Any>) : super() {\n   @Suppress(\"UNCHECKED_CAST\") // expected to work due to erasure\n   map = backingMap as HashMap<K, ChainEntry<K, V>>\n   }\n\n   /**\n   * Constructs an empty [LinkedHashMap] instance.\n   * @param initialCapacity the initial capacity (ignored)\n   * @param loadFactor   the load factor (ignored)\n   * @throws IllegalArgumentException if the initial capacity or load factor are negative\n   */\n   actual constructor(initialCapacity: Int, loadFactor: Float) : super(initialCapacity, loadFactor) {\n   map = HashMap<K, ChainEntry<K, V>>()\n   }\n\n   actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n   /**\n   * Constructs an instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n   */\n   actual constructor(original: Map<out K, V>) {\n   map = HashMap<K, ChainEntry<K, V>>()\n   this.putAll(original)\n   }\n\n   @PublishedApi\n   internal fun build(): Map<K, V> {\n   checkIsMutable()\n   isReadOnly = true\n   return this\n   }\n\n   actual override fun clear() {\n   checkIsMutable()\n   map.clear()\n   head = null\n   }\n\n\n//   override fun clone(): Any {\n//   return LinkedHashMap(this)\n//   }\n\n\n   actual override fun containsKey(key: K): Boolean = map.containsKey(key)\n\n   actual override fun containsValue(value: V): Boolean {\n   var node: ChainEntry<K, V> = head ?: return false\n   do {\n   if (node.value == value) {\n   return true\n   }\n   node = node.next!!\n   } while (node !== head)\n   return false\n   }\n\n\n   internal override fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n   actual override operator fun get(key: K): V? = map.get(key)?.value\n\n   actual override fun put(key: K, value: V): V? {\n   checkIsMutable()\n\n   val old = map.get(key)\n   if (old == null) {\n   val newEntry = ChainEntry(key, value)\n   map.put(key, newEntry)\n   newEntry.addToEnd()\n   return null\n   } else {\n   return old.setValue(value)\n   }\n   }\n\n   actual override fun remove(key: K): V? {\n   checkIsMutable()\n   val entry = map.remove(key)\n   if (entry != null) {\n   entry.remove()\n   return entry.value\n   }\n   return null\n   }\n\n   actual override val size: Int get() = map.size\n\n   internal override fun checkIsMutable() {\n   if (isReadOnly) throw UnsupportedOperationException()\n   }\n}\n\n\n/**\n * Constructs the specialized implementation

 of [LinkedHashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n */\npublic fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String, V> {\n   return LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT LinkedHashSet\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet] interface, backed by a [LinkedHashMap] instance.\n *\n * This implementation preserves the insertion order of elements during the iteration.\n */\npublic actual open class LinkedHashSet<E> : HashSet<E>, MutableSet<E> {\n\n   internal constructor(map: LinkedHashMap<E, Any>) : super(map)\n\n   /**\n   * Constructs a new empty [LinkedHashSet].\n   */\n   actual constructor() : super(LinkedHashMap<E, Any>())\n\n   /**\n   * Constructs a new [LinkedHashSet] filled with the elements of the specified collection.\n   */\n   actual constructor(elements:

Collection<E>) : super(LinkedHashMap<E, Any>()) {\n   addAll(elements)\n   }\n\n   /**\n   * Constructs a new empty [LinkedHashSet].\n   *\n   * @param initialCapacity the initial capacity (ignored)\n   * @param loadFactor   the load factor (ignored)\n   *\n   * @throws IllegalArgumentException if the initial capacity or load factor are negative\n   */\n   actual constructor(initialCapacity: Int, loadFactor: Float) : super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))\n\n   actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n   @PublishedApi\n   internal fun build(): Set<E> {\n   (map as LinkedHashMap<E, Any>).build()\n   return this\n   }\n\n   internal override fun checkIsMutable(): Unit = map.checkIsMutable()\n\n//   public override fun clone(): Any {\n//   return LinkedHashSet(this)\n//   }\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified [String] elements,\n * which elements the keys as properties of JS object without hashing them.\n */\npublic fun linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {\n   return LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.contracts.*\n\n\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@Deprecated(\"Synchronization on any object is not supported in Kotlin/JS\", ReplaceWith(\"run(block)\"))\n@kotlin.internal.InlineOnly\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline fun <R> synchronized(lock: Any, block: () -> R): R {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n   return block()\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.io\n\ninternal abstract class BaseOutput {\n   open fun println() {\n   print(\"\\n\")\n   }\n\n   open fun println(message: Any?) {\n   print(message)\n   println()\n   }\n\n   abstract fun print(message: Any?)\n\n   open fun flush() { }\n}\n\n/** JsName used to make the declaration available outside of module to test it */\n@JsName(\"NodeJsOutput\")\ninternal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {\n   override fun print(message: Any?) {\n   // TODO: Using local variable because of bug in block decomposition lowering in IR backend\n   val messageString = String(message)\n   outputStream.write(messageString)\n   }\n}\n\n/** JsName used to make the declaration available outside of module to test it */\n@JsName(\"OutputToConsoleLog\")\ninternal class OutputToConsoleLog : BaseOutput() {\n   override fun print(message: Any?) {\n   console.log(message)\n   }\n\n   override fun println(message: Any?) {\n   console.log(message)\n   }\n\n   override fun println() {\n   console.log(\"\")\n   }\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */\n@JsName(\"BufferedOutput\")\ninternal open class BufferedOutput : BaseOutput() {\n   var buffer = \"\"\n\n   override fun print(message: Any?) {\n   buffer += String(message)\n   }\n\n   override fun flush() {\n   buffer = \"\"\n   }\n}\n\n/** JsName used to make the declaration available outside of module to test it */\n@JsName(\"BufferedOutputToConsoleLog\")\ninternal class BufferedOutputToConsoleLog : BufferedOutput() {\n   override fun print(message: Any?) {\n   var s = String(message)\n   val i = s.nativeLastIndexOf(\"\\n\", 0)\n   if (i >= 0) {\n   buffer += s.substring(0, i)\n   flush()\n   s = s.substring(i + 1)\n   }\n   buffer += s\n   }\n\n   override fun flush() {\n   console.log(buffer)\n   buffer = \"\"\n   }\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */\n@JsName(\"output\")\ninternal var output = run {\n   val isNode: Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\n   if (isNode) NodeJsOutput(js(\"process.stdout\")) else BufferedOutputToConsoleLog()\n}\n\n@kotlin.internal.InlineOnly\nprivate inline fun String(value: Any?): String = js(\"String\")(value)\n\n/** Prints the line separator to the standard output stream. */\npublic actual fun println() {\n   output.println()\n}\n\n/** Prints the given [message] and the line separator to the standard output stream. */\npublic actual fun println(message: Any?) {\n   output.println(message)\n}\n\n/** Prints the given [message] to the standard output stream. */\npublic actual fun print(message: Any?) {\n   output.print(message)\n}\n\n@SinceKotlin(\"1.6\")\npublic actual fun readln():

String = throw UnsupportedOperationException(\"readln is not supported in Kotlin/JS\")\n\n@SinceKotlin(\"1.6\")\npublic actual fun readlnOrNull(): String? = throw UnsupportedOperationException(\"readlnOrNull is not supported in Kotlin/JS\")","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.CoroutineSingletons.*\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal actual

class SafeContinuation<in T>\ninternal actual constructor(\n   private val delegate: Continuation<T>,\n   initialResult: Any?\n) : Continuation<T> {\n   @PublishedApi\n   internal actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)\n\n   public actual override val context: CoroutineContext\n   get() = delegate.context\n\n   private var result: Any? = initialResult\n\n   public actual override fun resumeWith(result: Result<T>) {\n   val cur = this.result\n   when {\n   cur === UNDECIDED -> {\n   this.result = result.value\n   }\n   cur === COROUTINE_SUSPENDED -> {\n   this.result = RESUMED\n   delegate.resumeWith(result)\n   }\n   else -> throw IllegalStateException(\"Already resumed\")\n   }\n   }\n\n   @PublishedApi\n   internal actual fun getOrThrow(): Any? {\n   if (result === UNDECIDED) {\n   result = COROUTINE_SUSPENDED\n   return COROUTINE_SUSPENDED\n   }\n   val result = this.result\n   return when {\n   result === RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED upstream\n   result is Result.Failure -> throw result.exception\n   else -> result // either COROUTINE_SUSPENDED or data\n   }\n   }\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.cancellation\n\n@SinceKotlin(\"1.4\")\npublic actual open class CancellationException : IllegalStateException {\n   actual constructor() : super()\n   actual constructor(message: String?) : super(message)\n   constructor(message: String?, cause: Throwable?) : super(message, cause)\n   constructor(cause: Throwable?) : super(cause)\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o.

and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.js.internal\n\nimport kotlin.coroutines.Continuation\nimport kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal val EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n   result.getOrThrow()\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic external class Date() {\n   public constructor(milliseconds: Number)\n\n   public constructor(dateString: String)\n\n   public constructor(year:

Int, month: Int)\n\n   public constructor(year: Int, month: Int, day: Int)\n\n   public constructor(year: Int, month: Int, day: Int, hour: Int)\n\n   public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n\n   public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)\n\n   public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number)\n\n   public fun getDate(): Int\n\n   public fun getDay(): Int\n\n   public fun getFullYear(): Int\n\n   public fun getHours(): Int\n\n   public fun getMilliseconds(): Int\n\n   public fun getMinutes(): Int\n\n   public fun getMonth(): Int\n\n   public fun getSeconds(): Int\n\n   public fun getTime(): Double\n\n   public fun getTimezoneOffset(): Int\n\n   public fun getUTCDate(): Int\n\n   public fun getUTCDay(): Int\n\n   public fun getUTCFullYear(): Int\n\n   public fun getUTCHours(): Int\n\n   public fun getUTCMilliseconds():

Int\n\n   public fun getUTCMinutes(): Int\n\n   public fun getUTCMonth(): Int\n\n   public fun getUTCSeconds(): Int\n\n   public fun toDateString(): String\n\n   public fun toISOString(): String\n\n   public fun toJSON(): Json\n\n

   public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n   public fun toLocaleDateString(locales: String, options: LocaleOptions = definedExternally): String\n\n   public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n   public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String\n\n   public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n   public fun toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n\n   public fun toTimeString(): String\n\n   public

 fun toUTCString(): String\n\n   public companion object {\n   public fun now(): Double\n\n   public fun parse(dateString: String): Double\n\n   public fun UTC(year: Int, month: Int): Double\n\n   public fun UTC(year: Int, month: Int, day: Int): Double\n\n   public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double\n\n   public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int): Double\n\n   public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\n\n   public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\n   }\n\n   public interface LocaleOptions {\n   public var localeMatcher: String?\n\n   public var timeZone: String?\n\n   public var hour12: Boolean?\n\n   public var formatMatcher: String?\n\n   public var weekday: String?\n\n   public var era: String?\n\n   public var year: String?\n\n

        public var month: String?\n\n   public var day: String?\n\n   public var hour: String?\n\n   public var minute: String?\n\n   public var second: String?\n\n   public var timeZoneName: String?\n   }\n}\n\npublic inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {\n   val result = js(\"new Object()\").unsafeCast<Date.LocaleOptions>()\n   init(result)\n   return result\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Document\nimport org.w3c.dom.Element\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendElement as newAppendElement\nimport kotlinx.dom.createElement as newCreateElement\n\n/**\n * Creates a new element with the specified [name].\n *\n * The element is initialized

 with the specified [init] function.\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n   message = \"This API is moved to another package, use 'kotlinx.dom.createElement' instead.\",\n   replaceWith = ReplaceWith(\"this.createElement(name, init)\",

\"kotlinx.dom.createElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun Document.createElement(name: String, noinline init: Element.() -> Unit): Element = this.newCreateElement(name, init)\n\n/**\n * Appends a newly created element with the specified [name] to this element.\n *\n * The element is initialized with the specified [init] function.\n *\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n   message = \"This API is moved to another package, use 'kotlinx.dom.appendElement' instead.\",\n   replaceWith = ReplaceWith(\"this.appendElement(name, init)\",

\"kotlinx.dom.appendElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun Element.appendElement(name:

 String, noinline init: Element.() -> Unit): Element = this.newAppendElement(name, init)\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.addClass as newAddClass\nimport kotlinx.dom.hasClass as newHasClass\nimport kotlinx.dom.removeClass as newRemoveClass\n\n/** Returns true if the element has the given CSS class style in its 'class' attribute */\n@LowPriorityInOverloadResolution\n@Deprecated(\n   message = \"This API is moved to another package, use 'kotlinx.dom.hasClass' instead.\",\n   replaceWith = ReplaceWith(\"this.hasClass(cssClass)\",

\"kotlinx.dom.hasClass\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun

Element.hasClass(cssClass:
 String): Boolean = this.newHasClass(cssClass)\n\n/**\n * Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element\n *\n * @return true if at least one class has been added\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n   message = \"This API is moved to another package, use 'kotlinx.dom.addClass' instead.\",\n   replaceWith = ReplaceWith(\"this.addClass(cssClasses)\", \"kotlinx.dom.addClass\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun Element.addClass(vararg cssClasses: String): Boolean = this.newAddClass(*cssClasses)\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element\n *\n * @return true if at least one class has been removed\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n   message = \"This API is moved to another package, use 'kotlinx.dom.removeClass' instead.\",\n   replaceWith
 = ReplaceWith(\"this.removeClass(cssClasses)\", \"kotlinx.dom.removeClass\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun Element.removeClass(vararg cssClasses: String): Boolean = this.newRemoveClass(*cssClasses)","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.isElement as newIsElement\nimport kotlinx.dom.isText as newIsText\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n   message = \"This API is moved to another package, use 'kotlinx.dom.isText' instead.\",\n   replaceWith = ReplaceWith(\"this.isText\", \"kotlinx.dom.isText\")\n)\n@DeprecatedSinceKotlin(warningSince
 = \"1.4\", errorSince = \"1.6\")\npublic val Node.isText: Boolean\n   inline get() = this.newIsText\n\n/**\n * Gets a value indicating whether this node is an [Element].\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n   message = \"This API is moved to another package, use 'kotlinx.dom.isElement' instead.\",\n   replaceWith = ReplaceWith(\"this.isElement\", \"kotlinx.dom.isElement\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic val Node.isElement: Boolean\n   inline get() = this.newIsElement","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom.events\n\npublic fun EventListener(handler: (Event) -> Unit): EventListener = EventListenerHandler(handler)\n\nprivate class EventListenerHandler(private val handler: (Event) ->
 Unit) : EventListener {\n   public override fun handleEvent(event: Event) {\n   handler(event)\n   }\n\n   public override fun toString(): String = \"EventListenerHandler($handler)\"\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom\n\npublic external interface ItemArrayLike<out T> {\n   val length: Int\n   fun item(index: Int): T?\n}\n\n/**\n * Returns the view of this `ItemArrayLike<T>` collection as `List<T>`\n */\npublic fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {\n   override val size: Int get() = this@asList.length\n\n   override fun get(index: Int): T = when (index) {\n   in 0..lastIndex -> this@asList.item(index).unsafeCast<T>()\n   else -> throw IndexOutOfBoundsException(\"index $index is not in range [0..$lastIndex]\")\n   }\n}","/*\n
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\nimport org.w3c.dom.Node\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlinx.dom.appendText as newAppendText\nimport kotlinx.dom.clear as newClear\n\n/** Removes all the children from this node. */\n@LowPriorityInOverloadResolution\n@Deprecated(\n   message = \"This API is moved to another package, use 'kotlinx.dom.clear' instead.\",\n   replaceWith = ReplaceWith(\"this.clear()\", \"kotlinx.dom.clear\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun Node.clear() = this.newClear()\n\n/**\n * Creates text node and append it to the element.\n *\n * @return this

element\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n   message = \"This API is moved to another package,
 use 'kotlinx.dom.appendText' instead.\",\n   replaceWith = ReplaceWith(\"this.appendText(text)\",
\"kotlinx.dom.appendText\")\n)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun
Element.appendText(text: String): Element = this.newAppendText(text)\n","/*\n * Copyright 2010-2018 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Reinterprets this value
as a value of the [dynamic type](/docs/reference/dynamic-type.html).\n */\n@kotlin.internal.InlineOnly\npublic
inline fun Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this value as a value of the specified type [T]
without any actual type checking.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast():
@kotlin.internal.NoInfer T = this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value of
 the specified type [T] without any actual type checking.\n
*/\n@kotlin.internal.DynamicExtension\n@JsName(\"unsafeCastDynamic\")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic`
object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an
instance of [kotlin.collections.Iterable]\n */\n@kotlin.internal.DynamicExtension\npublic operator fun
dynamic.iterator(): Iterator<dynamic> {\n   val r: Any? = this\n\n   return when {\n   this[\"iterator\"] != null -
>\n   this[\"iterator\"]()\n   isArrayish(r) ->\n   r.unsafeCast<Array<*>>().iterator()\n\n   else ->\n
    (r as Iterable<*>).iterator()\n   }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt
 file.\n */\n\n// a package is omitted to get declarations directly under the
module\n\n@JsName(\"throwNPE\")\ninternal fun throwNPE(message: String) {\n   throw
NullPointerException(message)\n}\n\n@JsName(\"throwCCE\")\ninternal fun throwCCE() {\n   throw
ClassCastException(\"Illegal cast\")\n}\n\n@JsName(\"throwISE\")\ninternal fun throwISE(message: String) {\n
throw IllegalStateException(message)\n}\n\n@JsName(\"throwUPAE\")\ninternal fun throwUPAE(propertyName:
String) {\n   throw UninitializedPropertyAccessException(\"lateinit property ${propertyName} has not been
initialized\")\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\npackage kotlin.collections\n\n/**\n * Groups elements from the [Grouping] source by key and counts elements
in each group.\n *\n * @return a [Map] associating the key of
 each group with the count of elements in the group.\n *\n * @sample
samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T, K>
Grouping<T, K>.eachCount(): Map<K, Int> =\n   fold(0) { acc, _ -> acc + 1 }\n\n/*\n*/\n/**\n * Groups elements from
the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each
group.\n *\n * @return a [Map] associating the key of each group with the count of element in the group.\n
*/\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector: (T) -> Int):
Map<K, Int> =\n   fold(0) { acc, e -> acc + valueSelector(e) }\n*/","/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName(\"GroupingKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.collections\n\n/**\n
 * Represents a source of elements with a [keyOf] function, which can be applied to each element to get its key.\n
*\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n * they group elements by
their keys and then fold each group with some aggregating operation.\n *\n * It is created by attaching `keySelector:
(T) -> K` function to a source of elements.\n * To get an instance of [Grouping] use one of `groupingBy` extension
functions:\n * - [Iterable.groupingBy]\n * - [Sequence.groupingBy]\n * - [Array.groupingBy]\n * -
[CharSequence.groupingBy]\n *\n * For the list of group-and-fold operations available, see the [extension

functions](#extension-functions) for `Grouping`.\n */\n@SinceKotlin(\"1.1\")\npublic interface Grouping<T, out K>
{\n   /** Returns an [Iterator] over the elements of the source of this grouping. */\n   fun sourceIterator():
Iterator<T>\n   /** Extracts the key of an [element]. */\n   fun keyOf(element: T): K\n}\n\n/**\n
 * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group
sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the
results in a new map.\n *\n * The key for each element is provided by the [Grouping.keyOf] function.\n *\n *
@param operation function is invoked on each element with the following parameters:\n * - `key`: the key of the
group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null`
if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n
* - `first`: indicates whether it's the first `element` encountered in the group.\n *\n * @return a [Map] associating
the key of each group with the result of aggregation of the group elements.\n * @sample
samples.collections.Grouping.aggregateByRadix\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R>
Grouping<T,

 K>.aggregate(\n   operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): Map<K, R> {\n   return
aggregateTo(mutableMapOf<K, R>(), operation)\n}\n\n/**\n * Groups elements from the [Grouping] source by key
and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and
the current element as arguments,\n * and stores the results in the given [destination] map.\n *\n * The key for each
element is provided by the [Grouping.keyOf] function.\n *\n * @param operation a function that is invoked on each
element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * -
`accumulator`: the current value of the accumulator of the group, can be `null` if it's the first `element` encountered
in the group;\n * - `element`: the element from the source being aggregated;\n * - `first`: indicates whether it's the
first `element` encountered in the group.\n *\n * If the [destination] map

 already has a value corresponding to some key,\n * then the elements being aggregated for that key are never
considered as `first`.\n *\n * @return the [destination] map associating the key of each group with the result of
aggregation of the group elements.\n * @sample samples.collections.Grouping.aggregateByRadixTo\n
 */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T,
K>.aggregateTo(\n   destination: M,\n   operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): M
{\n   for (e in this.sourceIterator()) {\n   val key = keyOf(e)\n   val accumulator = destination[key]\n
destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\n   }\n
return destination\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the
elements of each group sequentially,\n * passing the previously accumulated value and the current element as
arguments,

 and stores the results in a new map.\n * An initial value of accumulator is provided by [initialValueSelector]
function.\n *\n * @param initialValueSelector a function that provides an initial value of accumulator for each
group.\n * It's invoked with parameters:\n * - `key`: the key of the group;\n * - `element`: the first element being
encountered in that group.\n *\n * @param operation a function that is invoked on each element with the following
parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the
accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return a [Map]
associating the key of each group with the result of accumulating the group elements.\n * @sample
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue\n */\n@SinceKotlin(\"1.1\")\npublic
inline fun <T, K, R> Grouping<T, K>.fold(\n   initialValueSelector: (key: K, element: T) -> R,\n
 operation: (key: K, accumulator: R, element: T) -> R\n): Map<K, R> =\n
@Suppress(\"UNCHECKED_CAST\")\n   aggregate { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and
applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the
current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of
accumulator is provided by [initialValueSelector] function.\n *\n * @param initialValueSelector a function that
provides an initial value of accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the

group;\n * - `element`: the first element being encountered in that group.\n *\n * If the [destination] map already has a value corresponding to some key, that value is used as an initial value of\n * the accumulator for that group and the [initialValueSelector]

function is not called for that group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n initialValueSelector: (key: K, element: T) -> R,\n operation: (key: K, accumulator: R, element: T) -> R\n): M =\n @Suppress(\"UNCHECKED_CAST\")\n aggregateTo(destination) { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\n\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is the same [initialValue] for each group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R> Grouping<T, K>.fold(\n initialValue: R,\n operation: (accumulator: R, element: T) -> R\n): Map<K, R> =\n @Suppress(\"UNCHECKED_CAST\")\n aggregate { _, acc, e, first -> operation(if (first) initialValue else

acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator is the same [initialValue] for each group.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the accumulator for that group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo\n */\n@SinceKotlin(\"1.1\")\npublic

inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n initialValue: R,\n operation: (accumulator: R, element: T) -> R\n): M =\n @Suppress(\"UNCHECKED_CAST\")\n aggregateTo(destination) { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\n\n\n/**\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n * sequentially starting from the second element of the group,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in a new map.\n * An initial value of accumulator is the first element of the group.\n *\n * @param operation a function that is invoked on each subsequent element of the group with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element

from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.reduceByMaxVowels\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\n operation: (key: K, accumulator: S, element: T) -> S\n): Map<K, S> =\n aggregate { key, acc, e, first ->\n @Suppress(\"UNCHECKED_CAST\")\n if (first) e else operation(key, acc as S, e)\n }\n\n/**\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n * sequentially starting from the second element of the group,\n * passing the previously accumulated value and the

current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator is the first element of the group.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n

 * that value is used as an initial value of the accumulator for that group and the first element of that group is also\n * subjected to the [operation].\n\n * @param operation a function that is invoked on each subsequent element of the group with the following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being folded;\n *\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.reduceByMaxVowelsTo\n *\n@SinceKotlin(\"1.1\")\npublic inline fun <S, T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n   destination: M,\n   operation: (key: K, accumulator: S, element: T) -> S\n): M =\n   aggregateTo(destination) { key, acc, e, first ->\n   @Suppress(\"UNCHECKED_CAST\")\n   if (first) e else operation(key, acc as S, e)\n   }\n\n\n/**\n * Groups elements from the [Grouping] source

 by key and counts elements in each group to the given [destination] map.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the counter for that group.\n *\n * @return the [destination] map associating the key of each group with the count of elements in the group.\n *\n * @sample samples.collections.Grouping.groupingByEachCount\n *\n@SinceKotlin(\"1.1\")\npublic fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =\n   foldTo(destination, 0) { acc, _ -> acc + 1 }\n\n/*\n/**\n * Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group\n * to the given [destination] map.\n *\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the sum for that group.\n *\n * @return the [destination] map associating the

 key of each group with the sum of elements in the group.\n *\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n   foldTo(destination, 0) { acc, e -> acc + valueSelector(e)}\n*\n\n\n/*\n// TODO: sum by long and by double overloads\n\npublic inline fun <T, K, M : MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M =\n   foldTo(destination, 0L) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n   fold(0L) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T, K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n   foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) -> Double):

 Map<K, Double> =\n   fold(0.0) { acc, e -> acc + valueSelector(e)}\n*\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\ninternal annotation class JsNativeImplementation(val implementation: String)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * An interface for indexing access to a collection of key-value pairs, where type of key is [String] and type of value is [Any?][Any].\n */\npublic external interface Json {\n   /**\n   * Calls to the function will be translated to indexing operation (square

 brackets) on the receiver with [propertyName] as the argument.\n   *\n   * E.g. for next code:\n   * ```kotlin\n   * fun test(j: Json, p: String) = j[\"prop\"] + j.get(p)\n   * ```\n   *\n   * will be generated:\n   * ```js\n   * function test(j, p) {\n   *   return j[\"prop\"] + j[p];\n   * }\n   * ```\n   */\n   operator fun get(propertyName: String): Any?\n\n   /**\n   * Calls of the function will be translated to an assignment of [value] to the receiver indexed (with square brackets/index operation) with [propertyName].\n   *\n   * E.g. for the following code:\n   * ```kotlin\n   * fun test(j: Json, p: String, newValue: Any) {\n   *   j[\"prop\"] = 1\n   *   j.set(p, newValue)\n

* }\n   * ```\n   *\n   * will be generated:\n   * ```js\n   * function test(j, p, newValue) {\n   *   j[\"prop\"] = 1;\n   *   j[p] = newValue;\n   * }\n   * }\n   * ```\n   */\n   operator fun set(propertyName: String, value: Any?): Unit\n}\n\n/**\n * Returns a simple JavaScript object (as [Json]) using provided key-value pairs as names and values of its properties.\n */\npublic fun json(vararg pairs: Pair<String, Any?>): Json {\n   val res: dynamic = js(\"({})\")\n   for ((name, value) in pairs) {\n   res[name] = value\n   }\n   return res\n}\n\n/**\n * Adds key-value pairs from [other] to [this].\n * Returns the original receiver.\n */\npublic fun Json.add(other: Json): Json {\n   val keys: Array<String> = js(\"Object\").keys(other)\n   for (key in keys) {\n   if (other.asDynamic().hasOwnProperty(key)) {\n   this[key] = other[key];\n   }\n   }\n   return this\n}\n\n/**\n * Exposes the JavaScript [JSON object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) to Kotlin.\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic external object JSON {\n   public fun stringify(o: Any?): String\n   public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)): String\n   public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: Int): String\n   public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: String): String\n   public fun stringify(o: Any?, replacer: Array<String>): String\n   public fun stringify(o: Any?, replacer: Array<String>, space: Int): String\n   public fun stringify(o: Any?, replacer: Array<String>, space: String): String\n\n   public fun <T> parse(text: String): T\n   public fun <T> parse(text: String, reviver: ((key: String, value: Any?) -> Any?)): T\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.math\n\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.JsMath as nativeMath\n\n\n// region ================ Double Math ==\n\n/** Computes the sine of the angle [x] given in radians.\n *\n * Special cases:\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sin(x: Double): Double = nativeMath.sin(x)\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n * Special cases:\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cos(x: Double): Double = nativeMath.cos(x)\n\n/** Computes the tangent of the angle [x] given in radians.\n *\n * Special cases:\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tan(x: Double): Double = nativeMath.tan(x)\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asin(x: Double): Double = nativeMath.asin(x)\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n *   - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acos(x: Double): Double = nativeMath.acos(x)\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan(x: Double): Double = nativeMath.atan(x)\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n *   - `atan2(0.0, 0.0)` is `0.0`\n *   - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n *   - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *    - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n *   - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n *   - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n *   - `atan2(+Inf, x)` is `PI/2` for finite `x`y`\n *    - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n *    - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)\n\n/**\n * Computes the hyperbolic sine of the value [x].\n *\n * Special cases:\n *    - `sinh(NaN)` is `NaN`\n *    - `sinh(+Inf)` is `+Inf`\n *    - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sinh(x: Double): Double =

nativeMath.sinh(x)\n\n/**\n * Computes the hyperbolic

 cosine of the value [x].\n *\n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is `+Inf`\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cosh(x: Double): Double =

nativeMath.cosh(x)\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n * -

`tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tanh(x: Double): Double =

nativeMath.tanh(x)\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is

`y` such that `sinh(y) == x`.\n *\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * -

`asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asinh(x: Double): Double

= nativeMath.asinh(x)\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned

value is positive `y` such that `cosh(y) ==

 x`.\n *\n * Special cases:\n *  - `acosh(NaN)` is `NaN`\n *  - `acosh(x)` is `NaN` when `x < 1`\n *  - `acosh(+Inf)`

is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acosh(x: Double): Double =

nativeMath.acosh(x)\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value

is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)` is `NaN` when `x

> 1` or `x < -1`\n *  - `tanh(1.0)` is `+Inf`\n *  - `tanh(-1.0)` is `-Inf`\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atanh(x: Double): Double =

nativeMath.atanh(x)\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n *

Special cases:\n * - returns `+Inf` if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN`

and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun hypot(x: Double, y:

Double): Double =

 nativeMath.hypot(x, y)\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n * -

`sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun

sqrt(x: Double): Double = nativeMath.sqrt(x)\n\n/**\n * Computes Euler's number `e` raised to the power of the

value [x].\n *\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun exp(x: Double): Double =

nativeMath.exp(x)\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more

precise result for [x] near zero.\n *\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n

* - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual

inline fun expm1(x: Double): Double = nativeMath.expm1(x)\n\n/**\n * Computes the logarithm of the

 value [x] to the given [base].\n *\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * -

`log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is

`+Inf` for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also

logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\npublic actual

fun log(x: Double, base: Double): Double {\n   if (base <= 0.0 || base == 1.0) return Double.NaN\n   return

nativeMath.log(x) / nativeMath.log(base)\n}\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n

*\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when `x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * -

`ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln(x: Double): Double =

nativeMath.log(x)\n\n/**\n * Computes the common logarithm

 (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log10(x: Double): Double =

nativeMath.log10(x)\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n *\n * @see [ln] function

for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log2(x: Double): Double =

nativeMath.log2(x)\n\n/**\n * Computes `ln(x + 1)`.\n *\n * This function can be implemented to produce more

precise result for [x] near zero.\n *\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x

< -1.0`\n *  - `ln1p(-1.0)` is `-Inf`\n *  - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1]

function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln1p(x: Double): Double =

nativeMath.log1p(x)\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the

smallest double value that is greater

 than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ceil(x: Double): Double = nativeMath.ceil(x)\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun floor(x: Double): Double = nativeMath.floor(x)\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n *\n * Special cases:\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n

 */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun truncate(x: Double): Double = nativeMath.trunc(x)\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun round(x: Double): Double {\n   if (x % 0.5 != 0.0) {\n   return nativeMath.round(x)\n   }\n   val floor = floor(x)\n   return if (floor % 2 == 0.0) floor else ceil(x)\n}\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n * - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Double]\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun abs(x: Double): Double = nativeMath.abs(x)\n\n/**\n * Returns the sign of the given value [x]:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if

 the value is positive\n *\n * Special case:\n * - `sign(NaN)` is `NaN`\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sign(x: Double): Double = nativeMath.sign(x)\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun min(a: Double, b: Double): Double = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun max(a: Double, b: Double): Double = nativeMath.max(a, b)\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is `NaN`\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic

 actual inline fun Double.pow(x: Double): Double = nativeMath.pow(this, x)\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Double.pow(n: Int): Double = nativeMath.pow(this, n.toDouble())\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\n\n/**\n * Returns the sign of this value:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special case:\n * - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Double.sign: Double get() = nativeMath.sign(this)\n\n/**\n * Returns this value with the sign bit same as

 of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Double.withSign(sign: Int): Double = this.withSign(sign.toDouble())\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n *\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\n *\n * Special Cases:\n * - `NaN.ulp` is `NaN`\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n * - `0.0.ulp` is `Double.MIN_VALUE`\n */\n@SinceKotlin(\"1.2\")\npublic actual val Double.ulp: Double get() = when {\n   this < 0 -> (-this).ulp\n   this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n   this == Double.MAX_VALUE -> this - this.nextDown()\n   else -> this.nextUp() - this\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction of positive infinity.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun

Double.nextUp(): Double = when {\n   this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n   this == 0.0 -> Double.MIN_VALUE\n   else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction of negative infinity.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.nextDown(): Double = when {\n   this.isNaN() || this == Double.NEGATIVE_INFINITY -> this\n   this == 0.0 -> -Double.MIN_VALUE\n   else -> Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\n}\n\n\n/**\n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].\n *\n * Special cases:\n *   - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n *   - `x.nextTowards(x) == x`\n *\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.nextTowards(to: Double): Double = when {\n   this.isNaN() || to.isNaN() -> Double.NaN\n   to == this -> to\n   to > this -> this.nextUp()\n   else /* to < this */ -> this.nextDown()\n}\n\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n *   - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.roundToInt(): Int = when {\n   isNaN() -> throw IllegalArgumentException(\"Cannot round NaN value.\")\n   this > Int.MAX_VALUE -> Int.MAX_VALUE\n   this < Int.MIN_VALUE -> Int.MIN_VALUE\n   else -> nativeMath.round(this).toInt()\n}\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n *   - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.roundToLong(): Long = when {\n   isNaN() -> throw IllegalArgumentException(\"Cannot round NaN value.\")\n   this > Long.MAX_VALUE -> Long.MAX_VALUE\n   this < Long.MIN_VALUE -> Long.MIN_VALUE\n   else -> nativeMath.round(this).toLong()\n}\n\n\n// endregion\n\n\n\n// region ================ Float Math ==\n\n/** Computes the sine of the angle [x] given in radians.\n *\n * Special cases:\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n * Special cases:\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()\n\n/** Computes the tangent of the angle [x] given in radians.\n *\n * Special cases:\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n *   - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n *   - `atan2(0.0, 0.0)` is `0.0`\n *   - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n *   - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *   - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n *   - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n *   - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n *   -

`atan2(+Inf, x)` is `PI/2` for finite `x`y\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic

actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(), x.toDouble()).toFloat()\n\n/**\n * Computes the hyperbolic sine of the value [x].\n *\n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sinh(x: Float): Float = nativeMath.sinh(x.toDouble()).toFloat()\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cosh(x: Float): Float = nativeMath.cosh(x.toDouble()).toFloat()\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()\n\n/**\n

* Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)` is `NaN`

when `x > 1` or `x < -1`\n * - `tanh(1.0)` is `+Inf`\n * - `tanh(-1.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n * - returns `+Inf` if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n * - `exp(NaN)`

is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n * - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun expm1(x: Float): Float = nativeMath.expm1(x.toDouble()).toFloat()\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b >

1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when `x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()\n\n/**\n * Computes the binary logarithm (base 2) of the

value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()\n\n/**\n * Computes `ln(a + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x < -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln1p(x: Float): Float = nativeMath.log1p(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()\n\n/**\n

 * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n *\n * Special cases:\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n * - `round(x)` is `x` where

 `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()\n\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n * - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Float]\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()\n\n/**\n * Returns the sign of the given value [x]:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special case:\n * - `sign(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sign(x: Float): Float = nativeMath.sign(x.toDouble()).toFloat()\n\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic

 actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)\n\n// extensions\n\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is `NaN`\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.pow(n: Int): Float

 = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Float.absoluteValue: Float get() = nativeMath.abs(this.toDouble()).toFloat()\n\n/**\n * Returns the sign of this value:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special case:\n * - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Float.sign: Float get() = nativeMath.sign(this.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n

*/\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Float): Float =

this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Returns
 this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Int): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n *   - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int = toDouble().roundToInt()\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n *   - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n
 *\n * @throws IllegalArgumentException when this value is `NaN`\n
 */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.roundToLong(): Long = toDouble().roundToLong()\n\n\n// endregion\n\n// region ================ Integer Math ======================================\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n *   - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Int]\n */\n// TODO: remove manual 'or' when KT-19290 is fixed\n@SinceKotlin(\"1.2\")\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun min(a: Int, b: Int): Int = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n
 */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a, b)\n\n/**\n * Returns the absolute
 value of this value.\n *\n * Special cases:\n *   - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n/**\n * Returns the sign of this value:\n *   - `-1` if the value is negative,\n *   - `0` if the value is zero,\n *   - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic actual val Int.sign: Int get() = when {\n   this < 0 -> -1\n   this > 0 -> 1\n   else -> 0\n}\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n *   - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Long]\n */\n@SinceKotlin(\"1.2\")\npublic actual fun abs(n: Long): Long = if (n < 0) -n else n\n\n/**\n * Returns the smaller of two values.\n
 */\n@SinceKotlin(\"1.2\")\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun min(a: Long, b: Long):
Long):
 Long = if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n
 */\n@SinceKotlin(\"1.2\")\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun max(a: Long, b: Long): Long = if (a >= b) a else b\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *   - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Long.absoluteValue: Long get() = abs(this)\n\n/**\n * Returns the sign of this value:\n *   - `-1` if the value is negative,\n *   - `0` if the value is zero,\n *   - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic actual val Long.sign: Int get() = when {\n   this < 0 -> -1\n   this > 0 -> 1\n   else -> 0\n}\n\n\n// endregion\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt
 file.\n */\n\npackage kotlin\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n */\npublic actual fun Double.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n */\npublic actual fun Float.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic actual fun Double.isInfinite(): Boolean = this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic

actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n */\npublic actual fun Double.isFinite(): Boolean = !isInfinite() && !isNaN()\n\n/**\n *

 Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n */\npublic actual fun Float.isFinite(): Boolean = !isInfinite() && !isNaN()\n\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.countOneBits(): Int {\n   // Hacker's Delight 5-1 algorithm\n   var v = this\n   v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)\n   v = (v and 0x33333333) + (v.ushr(2) and 0x33333333)\n   v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)\n   v = (v and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n   v = (v and 0x0000FFFF) + (v.ushr(16))\n   return v\n}\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic

 actual inline fun Int.countLeadingZeroBits(): Int = JsMath.clz32(this)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.countTrailingZeroBits(): Int =\n   // Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with countLeadingZeroBits\n   Int.SIZE_BITS - (this or -this).inv().countLeadingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.takeHighestOneBit(): Int =\n   if (this == 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\n *

 or zero, if this number is zero.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.takeLowestOneBit(): Int =\n   // Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n   this and -this\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.rotateLeft(bitCount: Int): Int =\n   shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n\n/**\n

 * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Int.rotateRight(bitCount: Int): Int =\n   shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n\n/**\n * Counts the number of set bits in the binary representation of this [Long] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Long.countOneBits(): Int =\n   high.countOneBits() + low.countOneBits()\n\n/**\n

 * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun Long.countLeadingZeroBits(): Int =\n   when (val high = this.high) {\n   0 -> Int.SIZE_BITS + low.countLeadingZeroBits()\n   else -> high.countLeadingZeroBits()\n   }\n\n/**\n * Counts the number of

consecutive least significant bits that are zero in the binary representation of this [Long] number.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countTrailingZeroBits(): Int =\n   when (val low = this.low) {\n   0 -> Int.SIZE_BITS +
high.countTrailingZeroBits()\n   else -> low.countTrailingZeroBits()\n   }\n\n/**\n * Returns a number having a
single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is
zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
 actual fun Long.takeHighestOneBit(): Long =\n   when (val high = this.high) {\n   0 ->
Long(low.takeHighestOneBit(), 0)\n   else -> Long(0, high.takeHighestOneBit())\n   }\n\n/**\n * Returns a
number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this
number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeLowestOneBit(): Long =\n   when (val low = this.low) {\n   0 -> Long(0, high.takeLowestOneBit())\n
    else -> Long(low.takeLowestOneBit(), 0)\n   }\n\n/**\n * Rotates the binary representation of this [Long]
number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side
reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit
count is the same as
 rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by
a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 64)`\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.rotateLeft(bitCount: Int): Long {\n   if ((bitCount and 31) != 0) {\n   val low = this.low\n   val high =
this.high\n   val newLow = low.shl(bitCount) or high.ushr(-bitCount)\n   val newHigh = high.shl(bitCount) or
low.ushr(-bitCount)\n   return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh,
newLow)\n   } else {\n   return if ((bitCount and 32) == 0) this else Long(high, low)\n   }\n}\n\n\n/**\n *
Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right side reenter the number as the
 most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as
rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a
multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) ==
number.rotateRight(n % 64)`\n
*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n","/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
kotlin.internal.LowPriorityInOverloadResolution\n\n\n/**\n * Exposes the JavaScript [Promise
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.\n
 */\n@Suppress(\"NOT_DOCUMENTED\")\npublic open external class Promise<out T>(executor: (resolve: (T) ->
Unit, reject: (Throwable) -> Unit) -> Unit) {\n   @LowPriorityInOverloadResolution\n   public open fun <S>
then(onFulfilled: ((T) -> S)?): Promise<S>\n\n   @LowPriorityInOverloadResolution\n   public open fun <S>
then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\n\n   public open fun <S>
catch(onRejected: (Throwable) -> S): Promise<S>\n\n   public open fun finally(onFinally: () -> Unit):
Promise<T>\n\n   companion object {\n   public fun <S> all(promise: Array<out Promise<S>>):
Promise<Array<out S>>\n\n   public fun <S> race(promise: Array<out Promise<S>>): Promise<S>\n\n
public fun reject(e: Throwable): Promise<Nothing>\n\n   public fun <S> resolve(e: S): Promise<S>\n   public
fun <S> resolve(e: Promise<S>): Promise<S>\n   }\n}\n\n// It's workaround for KT-19672 since we can fix it
properly until KT-11265 isn't fixed.\ninline
 fun <T, S> Promise<Promise<T>>.then(\n   noinline onFulfilled: ((T) -> S)?\n): Promise<S> {\n   return
this.unsafeCast<Promise<T>>().then(onFulfilled)\n }\n\ninline fun <T, S> Promise<Promise<T>>.then(\n   noinline
onFulfilled: ((T) -> S)?,\n   noinline onRejected: ((Throwable) -> S)?\n): Promise<S> {\n   return

this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport kotlin.math.pow\n\ninternal actual fun defaultPlatformRandom(): Random =\n   Random(js(\"(Math.random() * Math.pow(2, 32)) | 0\").unsafeCast<Int>())\n\nprivate val INV_2_26: Double = 2.0.pow(-26)\nprivate val INV_2_53: Double = 2.0.pow(-53)\ninternal actual fun doubleFromParts(hi26: Int, low27: Int): Double =\n   hi26 * INV_2_26 + low27 * INV_2_53","/*\n

 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\nimport findAssociatedObject\n\n/**\n * The experimental marker for associated objects API.\n *\n * Any usage of a declaration annotated with `@ExperimentalAssociatedObjects` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`,\n * or by using the compiler argument `-opt-in=kotlin.reflect.ExperimentalAssociatedObjects`.\n */\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@Retention(value = AnnotationRetention.BINARY)\npublic annotation class ExperimentalAssociatedObjects\n\n/**\n * Makes the annotated annotation class an associated object key.\n *\n * An associated object key annotation should have single [KClass] parameter.\n * When applied to a class with reference

 to an object declaration as an argument, it binds\n * the object to the class, making this binding discoverable at runtime using [findAssociatedObject].\n */\n@ExperimentalAssociatedObjects\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class AssociatedObjectKey\n\n/**\n * If [T] is an @[AssociatedObjectKey]-annotated annotation class and [this] class is annotated with @[T] (`S::class`),\n * returns object `S`.\n *\n * Otherwise returns `null`.\n */\n@ExperimentalAssociatedObjects\npublic inline fun <reified T : Annotation> KClass<*>.findAssociatedObject(): Any? =\n   this.findAssociatedObject(T::class)","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport getKClass\nimport kotlin.reflect.KClass\nimport kotlin.reflect.js.internal.KClassImpl\n\n/**\n

 * Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.\n */\nexternal interface JsClass<T : Any> {\n   /**\n   * Returns the unqualified name of the class represented by this instance.\n   */\n   val name: String\n}\n\n/**\n * Obtains a constructor reference for the given `KClass`.\n */\nval <T : Any> KClass<T>.js: JsClass<T>\n   get() = (this as KClassImpl<T>).jClass\n\n/**\n * Obtains a `KClass` instance for the given constructor reference.\n */\nval <T : Any> JsClass<T>.kotlin: KClass<T>\n   get() = getKClass(this)\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal abstract class KClassImpl<T : Any>(\n   internal open val jClass: JsClass<T>\n) : KClass<T>

 {\n\n   override val qualifiedName: String?\n   get() = TODO()\n\n   override fun equals(other: Any?): Boolean {\n   return other is KClassImpl<*> && jClass == other.jClass\n   }\n\n   // TODO: use FQN\n   override fun hashCode(): Int = simpleName?.hashCode() ?: 0\n\n   override fun toString(): String {\n   // TODO: use FQN\n   return \"class $simpleName\"\n   }\n}\n\ninternal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\n   override val simpleName: String? = jClass.asDynamic().`$metadata$`?.simpleName.unsafeCast<String?>()\n\n   override fun isInstance(value: Any?): Boolean {\n   return jsIsType(value, jClass)\n   }\n}\n\ninternal class PrimitiveKClassImpl<T : Any>(\n   jClass: JsClass<T>,\n   private val givenSimpleName: String,\n   private val isInstanceFunction: (Any?) -> Boolean\n) : KClassImpl<T>(jClass) {\n   override fun equals(other: Any?): Boolean {\n   if (other !is PrimitiveKClassImpl<*>) return

 false\n   return super.equals(other) && givenSimpleName == other.givenSimpleName\n   }\n\n   override val simpleName: String? get() = givenSimpleName\n\n   override fun isInstance(value: Any?): Boolean {\n   return

isInstanceFunction(value)\n   }\n}\n\ninternal object NothingKClassImpl : KClassImpl<Nothing>(js(\"Object\")) {\n   override val simpleName: String = \"Nothing\"\n\n   override fun isInstance(value: Any?): Boolean = false\n\n   override val jClass: JsClass<Nothing>\n   get() = throw UnsupportedOperationException(\"There's no native JS class for Nothing type\")\n\n   override fun equals(other: Any?): Boolean = other === this\n\n   override fun hashCode(): Int = 0\n}\n\ninternal class ErrorKClass : KClass<Nothing> {\n   override val simpleName: String? get() = error(\"Unknown simpleName for ErrorKClass\")\n   override val qualifiedName: String? get() = error(\"Unknown qualifiedName for ErrorKClass\")\n\n   override fun isInstance(value: Any?): Boolean = error(\"Can's check isInstance on ErrorKClass\")\n\n   override fun equals(other: Any?): Boolean = other === this\n\n   override fun hashCode(): Int = 0\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\ninternal actual inline val KClass<*>.qualifiedOrSimpleName: String?\n   get() = simpleName","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\n// TODO: Remove once JsReflectionAPICallChecker supports more reflection types\n@file:Suppress(\"Unsupported\")\n\nimport kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName(\"createKType\")\ninternal fun createKType(\n   classifier: KClassifier,\n   arguments: Array<KTypeProjection>,\n   isMarkedNullable: Boolean\n) =\n   KTypeImpl(classifier, arguments.asList(), isMarkedNullable)\n\n@JsName(\"createDynamicKType\")\ninternal fun createDynamicKType(): KType = DynamicKType\n\n@JsName(\"markKTypeNullable\")\ninternal fun markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments, true)\n\n@JsName(\"createKTypeParameter\")\ninternal fun createKTypeParameter(\n   name: String,\n   upperBounds: Array<KType>,\n   variance: String\n): KTypeParameter {\n   val kVariance = when (variance) {\n   \"in\" -> KVariance.IN\n   \"out\" -> KVariance.OUT\n   else -> KVariance.INVARIANT\n   }\n\n   return KTypeParameterImpl(name, upperBounds.asList(), kVariance, false)\n}\n\n@JsName(\"getStarKTypeProjection\")\ninternal fun getStarKTypeProjection(): KTypeProjection =\n   KTypeProjection.STAR\n\n@JsName(\"createCovariantKTypeProjection\")\ninternal fun createCovariantKTypeProjection(type: KType): KTypeProjection =\n   KTypeProjection.covariant(type)\n\n@JsName(\"createInvariantKTypeProjection\")\ninternal fun createInvariantKTypeProjection(type: KType): KTypeProjection =\n   KTypeProjection.invariant(type)\n\n@JsName(\"createContravariantKTypeProjection\")\ninternal fun createContravariantKTypeProjection(type: KType): KTypeProjection =\n   KTypeProjection.contravariant(type)\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class KTypeImpl(\n   override val classifier: KClassifier,\n   override val arguments: List<KTypeProjection>,\n   override val isMarkedNullable: Boolean\n) : KType {\n   override fun equals(other: Any?): Boolean =\n   other is KTypeImpl &&\n   classifier == other.classifier && arguments == other.arguments && isMarkedNullable == other.isMarkedNullable\n\n   override fun hashCode(): Int =\n   (classifier.hashCode() * 31 + arguments.hashCode()) * 31 + isMarkedNullable.hashCode()\n\n   override fun toString(): String {\n   val kClass = (classifier as? KClass<*>)\n   val classifierName = when {\n   kClass == null -> classifier.toString()\n   kClass.simpleName != null -> kClass.simpleName\n   else -> \"(non-denotable type)\"\n   }\n\n   val args =\n   if (arguments.isEmpty()) \"\"\n   else arguments.joinToString(\", \", \"<\", \">\")\n   val nullable = if (isMarkedNullable) \"?\" else \"\"\n\n   return classifierName + args + nullable\n   }\n}\n\ninternal object DynamicKType : KType {\n   override val classifier: KClassifier? = null\n   override val arguments: List<KTypeProjection> = emptyList()\n   override val isMarkedNullable: Boolean = false\n

override fun toString(): String = \"dynamic\"\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal data class KTypeParameterImpl(\n   override val name: String,\n   override val upperBounds: List<KType>,\n   override val variance: KVariance,\n   override val isReified: Boolean\n) : KTypeParameter {\n   override fun toString(): String = name\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.js.JsClass\n\n@JsName(\"PrimitiveClasses\")\ninternal object PrimitiveClasses {\n   @JsName(\"anyClass\")\n   val anyClass = PrimitiveKClassImpl(js(\"Object\").unsafeCast<JsClass<Any>>(), \"Any\", { it is Any })\n\n   @JsName(\"numberClass\")\n   val numberClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Number>>(), \"Number\", { it is Number })\n\n   @JsName(\"nothingClass\")\n   val nothingClass = NothingKClassImpl\n\n   @JsName(\"booleanClass\")\n   val booleanClass = PrimitiveKClassImpl(js(\"Boolean\").unsafeCast<JsClass<Boolean>>(), \"Boolean\", { it is Boolean })\n\n   @JsName(\"byteClass\")\n   val byteClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Byte>>(), \"Byte\", { it is Byte })\n\n   @JsName(\"shortClass\")\n   val shortClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Short>>(), \"Short\", { it is Short })\n\n   @JsName(\"intClass\")\n   val intClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Int>>(), \"Int\", { it is Int })\n\n   @JsName(\"floatClass\")\n   val floatClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Float>>(), \"Float\", { it is Float })\n\n   @JsName(\"doubleClass\")\n   val doubleClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Double>>(), \"Double\", { it is Double })\n\n   @JsName(\"arrayClass\")\n   val arrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<Array<*>>>(), \"Array\", { it is Array<*> })\n\n   @JsName(\"stringClass\")\n   val stringClass = PrimitiveKClassImpl(js(\"String\").unsafeCast<JsClass<String>>(), \"String\", { it is String })\n\n   @JsName(\"throwableClass\")\n   val throwableClass = PrimitiveKClassImpl(js(\"Error\").unsafeCast<JsClass<Throwable>>(), \"Throwable\", { it is Throwable })\n\n   @JsName(\"booleanArrayClass\")\n   val booleanArrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<BooleanArray>>(), \"BooleanArray\", { it is BooleanArray })\n\n   @JsName(\"charArrayClass\")\n   val charArrayClass = PrimitiveKClassImpl(js(\"Uint16Array\").unsafeCast<JsClass<CharArray>>(), \"CharArray\", { it is CharArray })\n\n   @JsName(\"byteArrayClass\")\n   val byteArrayClass = PrimitiveKClassImpl(js(\"Int8Array\").unsafeCast<JsClass<ByteArray>>(), \"ByteArray\", { it is ByteArray })\n\n   @JsName(\"shortArrayClass\")\n   val shortArrayClass = PrimitiveKClassImpl(js(\"Int16Array\").unsafeCast<JsClass<ShortArray>>(), \"ShortArray\", { it is ShortArray })\n\n   @JsName(\"intArrayClass\")\n   val intArrayClass = PrimitiveKClassImpl(js(\"Int32Array\").unsafeCast<JsClass<IntArray>>(), \"IntArray\", { it is IntArray })\n\n   @JsName(\"longArrayClass\")\n   val longArrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<LongArray>>(), \"LongArray\", { it is LongArray })\n\n   @JsName(\"floatArrayClass\")\n   val floatArrayClass = PrimitiveKClassImpl(js(\"Float32Array\").unsafeCast<JsClass<FloatArray>>(), \"FloatArray\", { it is FloatArray })\n\n   @JsName(\"doubleArrayClass\")\n   val doubleArrayClass = PrimitiveKClassImpl(js(\"Float64Array\").unsafeCast<JsClass<DoubleArray>>(), \"DoubleArray\", { it is DoubleArray })\n\n   @JsName(\"functionClass\")\n   fun functionClass(arity: Int): KClassImpl<Any> {\n   return functionClasses.get(arity) ?: run {\n   val result = PrimitiveKClassImpl(js(\"Function\").unsafeCast<JsClass<Any>>(), \"Function$arity\",\n   { jsTypeOf(it) === \"function\" && it.asDynamic().length === arity })\n   functionClasses.asDynamic()[arity]

= result\n   result\n   }\n   }\n}\n\nprivate val functionClasses =
arrayOfNulls<KClassImpl<Any>>(0)","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\nimport
kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName(\"getKClass\")\ninternal fun <T : Any>
getKClass(jClass: Any /* JsClass<T>

| Array<JsClass<T>> */): KClass<T> {\n   return if (js(\"Array\").isArray(jClass)) {\n
getKClassM(jClass.unsafeCast<Array<JsClass<T>>>())\n   } else {\n
getKClass1(jClass.unsafeCast<JsClass<T>>())\n   }\n}\n\n@JsName(\"getKClassM\")\ninternal fun <T : Any>
getKClassM(jClasses: Array<JsClass<T>>): KClass<T> = when (jClasses.size) {\n   1 ->
getKClass1(jClasses[0])\n   0 -> NothingKClassImpl.unsafeCast<KClass<T>>()\n   else ->
ErrorKClass().unsafeCast<KClass<T>>()\n}\n\n@JsName(\"getKClassFromExpression\")\ninternal fun <T : Any>
getKClassFromExpression(e: T): KClass<T> =\n   when (jsTypeOf(e)) {\n   \"string\" ->
PrimitiveClasses.stringClass\n   \"number\" -> if (jsBitwiseOr(e, 0).asDynamic() === e)
PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\n   \"boolean\" -> PrimitiveClasses.booleanClass\n
  \"function\" -> PrimitiveClasses.functionClass(e.asDynamic().length)\n   else -> {\n   when {\n   e
is BooleanArray

 -> PrimitiveClasses.booleanArrayClass\n   e is CharArray -> PrimitiveClasses.charArrayClass\n   e
is ByteArray -> PrimitiveClasses.byteArrayClass\n   e is ShortArray -> PrimitiveClasses.shortArrayClass\n
      e is IntArray -> PrimitiveClasses.intArrayClass\n   e is LongArray ->
PrimitiveClasses.longArrayClass\n   e is FloatArray -> PrimitiveClasses.floatArrayClass\n   e is
DoubleArray -> PrimitiveClasses.doubleArrayClass\n   e is KClass<*> -> KClass::class\n   e is
Array<*> -> PrimitiveClasses.arrayClass\n   else -> {\n   val constructor =
js(\"Object\").getPrototypeOf(e).constructor\n   when {\n   constructor === js(\"Object\") ->
PrimitiveClasses.anyClass\n   constructor === js(\"Error\") -> PrimitiveClasses.throwableClass\n
      else -> {\n

         val jsClass: JsClass<T> = constructor\n   getKClass1(jsClass)\n   }\n
}\n   }\n   }\n   }\n   }.unsafeCast<KClass<T>>()\n\n@JsName(\"getKClass1\")\ninternal fun <T :
Any> getKClass1(jClass: JsClass<T>): KClass<T> {\n   if (jClass === js(\"String\")) return
PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\n\n   val metadata = jClass.asDynamic().`$metadata$`\n\n
return if (metadata != null) {\n   if (metadata.`$kClass$` == null) {\n   val kClass =
SimpleKClassImpl(jClass)\n   metadata.`$kClass$` = kClass\n   kClass\n   } else {\n
metadata.`$kClass$`\n   }\n   } else {\n   SimpleKClassImpl(jClass)\n   }\n}","/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
 kotlin.js\n\n/**\n * Exposes the JavaScript [RegExp
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp) to Kotlin.\n
*/\n@Suppress(\"NOT_DOCUMENTED\")\npublic external class RegExp(pattern: String, flags: String? =
definedExternally) {\n\n   public fun test(str: String): Boolean\n\n   public fun exec(str: String): RegExpMatch?\n\n
 public override fun toString(): String\n\n   /**\n   * The lastIndex is a read/write integer property of regular
expressions that specifies the index at which to start the next match.\n   */\n   public var lastIndex: Int\n\n   public
val global: Boolean\n   public val ignoreCase: Boolean\n   public val multiline: Boolean\n}\n\n/**\n * Resets the
regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning
of the input string.\n */\npublic fun RegExp.reset() {\n   lastIndex = 0\n}\n\n// TODO: Inherit from array or
introduce asArray() extension\n/**\n
 * Represents the return value of [RegExp.exec].\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic external
interface RegExpMatch {\n   public val index: Int\n   public val input: String\n   public val length: Int\n}\n\n/**\n
* Returns the entire text matched by [RegExp.exec] if the [index] parameter is 0, or the text matched by the

capturing parenthesis\n * at the given index.\n */\npublic inline operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Converts the result of [RegExp.exec] to an array where the first element contains the entire matched text and each subsequent\n * element is the text matched by each capturing parenthesis.\n */\npublic inline fun RegExpMatch.asArray(): Array<out String?> = unsafeCast<Array<out String?>>()\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.sequences\n\ninternal actual class ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {\n   private var sequenceRef: Sequence<T>? = sequence\n\n   actual override fun iterator(): Iterator<T> {\n   val sequence = sequenceRef ?: throw IllegalStateException(\"This sequence can be consumed only once.\")\n   sequenceRef = null\n   return sequence.iterator()\n   }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n@SinceKotlin(\"1.5\")\npublic actual enum class CharCategory(internal val value: Int, public actual val code: String) {\n   /**\n   * General category \"Cn\" in the Unicode specification.\n   */\n   UNASSIGNED(0, \"Cn\"),\n\n   /**\n   * General category \"Lu\" in the Unicode specification.\n   */\n   UPPERCASE_LETTER(1, \"Lu\"),\n\n   /**\n   * General category \"Ll\" in the Unicode specification.\n   */\n   LOWERCASE_LETTER(2, \"Ll\"),\n\n   /**\n   * General category \"Lt\" in the Unicode specification.\n   */\n   TITLECASE_LETTER(3, \"Lt\"),\n\n   /**\n   * General category \"Lm\" in the Unicode specification.\n   */\n   MODIFIER_LETTER(4, \"Lm\"),\n\n   /**\n   * General category \"Lo\" in the Unicode specification.\n   */\n   OTHER_LETTER(5, \"Lo\"),\n\n   /**\n   * General category \"Mn\" in the Unicode specification.\n   */\n   NON_SPACING_MARK(6, \"Mn\"),\n\n   /**\n   * General category \"Me\" in the Unicode specification.\n   */\n   ENCLOSING_MARK(7, \"Me\"),\n\n   /**\n   * General category \"Mc\" in the Unicode specification.\n   */\n   COMBINING_SPACING_MARK(8, \"Mc\"),\n\n   /**\n   * General category \"Nd\" in the Unicode specification.\n   */\n   DECIMAL_DIGIT_NUMBER(9, \"Nd\"),\n\n   /**\n   * General category \"Nl\" in the Unicode specification.\n   */\n   LETTER_NUMBER(10, \"Nl\"),\n\n   /**\n   * General category \"No\" in the Unicode specification.\n   */\n   OTHER_NUMBER(11, \"No\"),\n\n   /**\n   * General category \"Zs\" in the Unicode specification.\n   */\n   SPACE_SEPARATOR(12, \"Zs\"),\n\n   /**\n   * General category \"Zl\" in the Unicode specification.\n   */\n   LINE_SEPARATOR(13, \"Zl\"),\n\n   /**\n   * General category \"Zp\" in the Unicode specification.\n   */\n   PARAGRAPH_SEPARATOR(14, \"Zp\"),\n\n   /**\n   * General category \"Cc\" in the Unicode specification.\n   */\n   CONTROL(15, \"Cc\"),\n\n   /**\n   * General category \"Cf\" in the Unicode specification.\n   */\n   FORMAT(16, \"Cf\"),\n\n   /**\n   * General category \"Co\" in the Unicode specification.\n   */\n   PRIVATE_USE(18, \"Co\"),\n\n   /**\n   * General category \"Cs\" in the Unicode specification.\n   */\n   SURROGATE(19, \"Cs\"),\n\n   /**\n   * General category \"Pd\" in the Unicode specification.\n   */\n   DASH_PUNCTUATION(20, \"Pd\"),\n\n   /**\n   * General category \"Ps\" in the Unicode specification.\n   */\n   START_PUNCTUATION(21, \"Ps\"),\n\n   /**\n   * General category \"Pe\" in the Unicode specification.\n   */\n   END_PUNCTUATION(22, \"Pe\"),\n\n   /**\n   * General category \"Pc\" in the Unicode specification.\n   */\n   CONNECTOR_PUNCTUATION(23, \"Pc\"),\n\n   /**\n   * General category \"Po\" in the Unicode specification.\n   */\n   OTHER_PUNCTUATION(24, \"Po\"),\n\n   /**\n   * General category \"Sm\" in the Unicode specification.\n   */\n   MATH_SYMBOL(25, \"Sm\"),\n\n   /**\n   * General category \"Sc\" in the Unicode specification.\n   */\n   CURRENCY_SYMBOL(26, \"Sc\"),\n\n   /**\n   * General category \"Sk\" in the Unicode specification.\n   */\n   MODIFIER_SYMBOL(27, \"Sk\"),\n\n   /**\n   * General category \"So\" in the Unicode specification.\n   */\n   OTHER_SYMBOL(28, \"So\"),\n\n   /**\n   * General category \"Pi\" in the Unicode specification.\n   */\n   INITIAL_QUOTE_PUNCTUATION(29, \"Pi\"),\n\n   /**\n   * General category \"Pf\" in the Unicode specification.\n   */\n   FINAL_QUOTE_PUNCTUATION(30, \"Pf\");\n\n   /**\n   * Returns `true` if [char] character belongs to this category.\n   */\n   public actual operator fun contains(char: Char): Boolean =

char.getCategoryValue() == this.value\n\n   companion object {\n   internal fun valueOf(category: Int): CharCategory =\n   when (category) {\n   in 0..16 -> values()[category]\n   in 18..30 -> values()[category - 1]\n   else -> throw IllegalArgumentException(\"Category #$category is not defined.\")\n   }\n   }\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * The exception thrown when a character encoding or decoding error occurs.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual open class CharacterCodingException(message: String?) : Exception(message) {\n   actual constructor() : this(null)\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * A mutable sequence of characters.\n *\n * String builder can be used to efficiently perform multiple string manipulation operations.\n */\npublic actual class StringBuilder actual constructor(content: String) : Appendable, CharSequence {\n   /**\n   * Constructs an empty string builder with the specified initial [capacity].\n   *\n   * In Kotlin/JS implementation of StringBuilder the initial capacity has no effect on the further performance of operations.\n   */\n   actual constructor(capacity: Int) : this() {\n   }\n\n   /** Constructs a string builder that contains the same characters as the specified [content] char sequence. */\n   actual constructor(content: CharSequence) : this(content.toString()) {}\n\n   /** Constructs an empty string builder. */\n   actual constructor() : this(\"\")\n\n   private var string: String = if (content !== undefined) content else \"\"\n\n   actual override val length: Int\n   get() = string.asDynamic().length\n\n   actual override fun get(index: Int): Char =\n   string.getOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length}\") }\n\n   actual override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)\n\n   actual override fun append(value: Char): StringBuilder {\n   string += value\n   return this\n   }\n\n   actual override fun append(value: CharSequence?): StringBuilder {\n   string += value.toString()\n   return this\n   }\n\n   actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =\n   this.appendRange(value ?: \"null\", startIndex, endIndex)\n\n   /**\n   * Reverses the contents of this string builder and returns this instance.\n   *\n   * Surrogate pairs included in this string builder are treated as single characters.\n   * Therefore, the order of the high-low surrogates is never reversed.\n   *\n   * Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the operation.\n   * For example, reversing `\"\\uDC00\\uD800\"` produces `\"\\uD800\\uDC00\"` which is a valid surrogate pair.\n   */\n   actual fun reverse(): StringBuilder {\n   var reversed = \"\"\n   var index = string.length - 1\n   while (index >= 0) {\n   val low = string[index--]\n   if (low.isLowSurrogate() && index >= 0) {\n   val high = string[index--]\n   if (high.isHighSurrogate()) {\n   reversed = reversed + high + low\n   } else {\n   reversed = reversed + low + high\n   }\n   } else {\n   reversed += low\n   }\n   }\n   string = reversed\n   return this\n   }\n\n   /**\n   * Appends the string representation of the specified object [value] to this string builder and returns this instance.\n   *\n   * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n   * and then that string was appended to this string builder.\n   */\n   actual fun append(value: Any?): StringBuilder {\n   string += value.toString()\n   return this\n   }\n\n   /**\n   * Appends the string representation of the specified boolean [value] to this string builder and returns this instance.\n   *\n   * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n   * and then that string was appended to this string builder.\n   */\n   @SinceKotlin(\"1.3\")\n   actual fun append(value: Boolean): StringBuilder {\n   string += value\n   return this\n   }\n\n   /**\n   * Appends characters in the specified character array [value] to this string builder and returns this instance.\n   *\n   * Characters are appended in order, starting at the index 0.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun append(value: CharArray): StringBuilder {\n   string += value.concatToString()\n   return this\n   }\n\n   @Deprecated(\"Provided for binary compatibility.\",

level = DeprecationLevel.HIDDEN)\n   fun append(value: String): StringBuilder = append(value)\n\n   /**\n   *
Appends the specified string [value] to this string builder and returns

 this instance.\n   *\n   * If [value] is `null`, then the four characters `\"null\"` are appended.\n   */\n
@SinceKotlin(\"1.3\")\n   actual fun append(value: String?): StringBuilder {\n   this.string += value ?: \"null\"\n
   return this\n   }\n\n   /**\n   * Returns the current capacity of this string builder.\n   *\n   * The capacity is the
maximum length this string builder can have before an allocation occurs.\n   *\n   * In Kotlin/JS implementation
of StringBuilder the value returned from this method may not indicate the actual size of the backing storage.\n
*/\n   @SinceKotlin(\"1.3\")\n//   @ExperimentalStdlibApi\n   @Deprecated(\"Obtaining StringBuilder capacity is
not supported in JS and common code.\", level = DeprecationLevel.ERROR)\n   actual fun capacity(): Int =
length\n\n   /**\n   * Ensures that the capacity of this string builder is at least equal to the specified
[minimumCapacity].\n   *\n   * If the current capacity

 is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n   * Otherwise, this
method takes no action and simply returns.\n   *\n   * In Kotlin/JS implementation of StringBuilder the size of the
backing storage is not extended to comply the given [minimumCapacity],\n   * thus calling this method has no
effect on the further performance of operations.\n   */\n   @SinceKotlin(\"1.4\")\n
@WasExperimental(ExperimentalStdlibApi::class)\n   actual fun ensureCapacity(minimumCapacity: Int) {\n
}\n\n   /**\n   * Returns the index within this string builder of the first occurrence of the specified [string].\n   *\n
 * Returns `-1` if the specified [string] does not occur in this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n
@WasExperimental(ExperimentalStdlibApi::class)\n   actual fun indexOf(string: String): Int =
this.string.asDynamic().indexOf(string)\n\n   /**\n   * Returns the index within this string builder of

 the first occurrence of the specified [string],\n   * starting at the specified [startIndex].\n   *\n   * Returns `-1` if
the specified [string] does not occur in this string builder starting at the specified [startIndex].\n   */\n
@SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun indexOf(string: String,
startIndex: Int): Int = this.string.asDynamic().indexOf(string, startIndex)\n\n   /**\n   * Returns the index within
this string builder of the last occurrence of the specified [string].\n   * The last occurrence of empty string `\"\"` is
considered to be at the index equal to `this.length`.\n   *\n   * Returns `-1` if the specified [string] does not occur
in this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n
actual fun lastIndexOf(string: String): Int = this.string.asDynamic().lastIndexOf(string)\n\n   /**\n   * Returns the
index within this string builder of the

 last occurrence of the specified [string],\n   * starting from the specified [startIndex] toward the beginning.\n   *\n
 * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n
*/\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun
lastIndexOf(string: String, startIndex: Int): Int {\n   if (string.isEmpty() && startIndex < 0) return -1\n   return
this.string.asDynamic().lastIndexOf(string, startIndex)\n   }\n\n   /**\n   * Inserts the string representation of the
specified boolean [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * The
overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n   * and then
that string was inserted into this string builder at the specified [index].\n   *\n   * @throws
IndexOutOfBoundsException if [index] is less than zero

 or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n
@WasExperimental(ExperimentalStdlibApi::class)\n   actual fun insert(index: Int, value: Boolean): StringBuilder
{\n   AbstractList.checkPositionIndex(index, length)\n\n   string = string.substring(0, index) + value +
string.substring(index)\n   return this\n   }\n\n   /**\n   * Inserts the specified character [value] into this string
builder at the specified [index] and returns this instance.\n   *\n   * @throws IndexOutOfBoundsException if
[index] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n
@WasExperimental(ExperimentalStdlibApi::class)\n   actual fun insert(index: Int, value: Char): StringBuilder {\n
   AbstractList.checkPositionIndex(index, length)\n\n   string = string.substring(0, index) + value +
string.substring(index)\n   return this\n   }\n\n   /**\n   * Inserts characters in

the specified character array [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * The inserted characters go in same order as in the [value] character array, starting at [index].\n   *\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun insert(index: Int, value: CharArray): StringBuilder {\n   AbstractList.checkPositionIndex(index, length)\n\n   string = string.substring(0, index) + value.concatToString() + string.substring(index)\n   return this\n   }\n\n   /**\n   * Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n   *\n   * @param

 index the position in this string builder to insert at.\n   * @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `\"null\"` are inserted.\n   *\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun insert(index: Int, value: CharSequence?): StringBuilder {\n   AbstractList.checkPositionIndex(index, length)\n\n   string = string.substring(0, index) + value.toString() + string.substring(index)\n   return this\n   }\n\n   /**\n   * Inserts the string representation of the specified object [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n   * and then that string was inserted

 into this string builder at the specified [index].\n   *\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun insert(index: Int, value: Any?): StringBuilder {\n   AbstractList.checkPositionIndex(index, length)\n\n   string = string.substring(0, index) + value.toString() + string.substring(index)\n   return this\n   }\n\n   @Deprecated(\"Provided for binary compatibility.\", level = DeprecationLevel.HIDDEN)\n   fun insert(index: Int, value: String): StringBuilder = insert(index, value)\n\n   /**\n   * Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * If [value] is `null`, then the four characters `\"null\"` are inserted.\n   *\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length

 of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun insert(index: Int, value: String?): StringBuilder {\n   AbstractList.checkPositionIndex(index, length)\n\n   val toInsert = value ?: \"null\"\n   this.string = this.string.substring(0, index) + toInsert + this.string.substring(index)\n   return this\n   }\n\n   /**\n   * Sets the length of this string builder to the specified [newLength].\n   *\n   * If the [newLength] is less than the current length, it is changed to the specified [newLength].\n   * Otherwise, null characters '\\u0000' are appended to this string builder until its length is less than the [newLength].\n   *\n   * Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n   * Therefore, increasing length of this string builder and then updating each character by index may slow down your program.\n   *\n   * @throws

 IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun setLength(newLength: Int) {\n   if (newLength < 0) {\n   throw IllegalArgumentException(\"Negative new length: $newLength.\")\n   }\n\n   if (newLength <= length) {\n   string = string.substring(0, newLength)\n   } else {\n   for (i in length until newLength) {\n   string += '\\u0000'\n   }\n   }\n   }\n\n   /**\n   * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n   *\n   * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun substring(startIndex: Int):

 String {\n   AbstractList.checkPositionIndex(startIndex, length)\n\n   return string.substring(startIndex)\n   }\n\n   /**\n   * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n   *\n   * @throws IndexOutOfBoundsException or

[IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n   *\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun substring(startIndex: Int, endIndex: Int): String {\n   AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n\n   return string.substring(startIndex, endIndex)\n   }\n\n   /**\n   * Attempts to reduce storage used for this string builder.\n   *\n   * If the backing storage of this string builder is larger than necessary to hold its current contents,\n   * then it may be resized to become more space efficient.\n   * Calling this method may, but is not required to, affect the value of the [capacity] property.\n   *\n   * In Kotlin/JS implementation of StringBuilder the size of the backing storage is always equal to the length of the string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   actual fun trimToSize() {\n   }\n\n   override fun toString(): String = string\n\n   /**\n   * Clears the content of this string builder making it empty and returns this instance.\n   *\n   * @sample samples.text.Strings.clearStringBuilder\n   */\n   @SinceKotlin(\"1.3\")\n   public fun clear(): StringBuilder {\n   string = \"\"\n   return this\n   }\n\n   /**\n   * Sets the character at the specified [index] to the specified [value].\n   *\n   * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   public operator fun set(index: Int, value: Char) {\n   AbstractList.checkElementIndex(index, length)\n\n   string = string.substring(0, index) + value + string.substring(index + 1)\n   }\n\n   /**\n   * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n   *\n   * @param startIndex the beginning (inclusive) of the range to replace.\n   * @param endIndex the end (exclusive) of the range to replace.\n   * @param value the string to replace with.\n   *\n   * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   public fun setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder {\n   checkReplaceRange(startIndex, endIndex, length)\n\n   this.string = this.string.substring(0, startIndex) + value + this.string.substring(endIndex)\n   return this\n   }\n\n   private fun checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {\n   if (startIndex < 0 || startIndex > length) {\n   throw IndexOutOfBoundsException(\"startIndex: $startIndex, length: $length\")\n   }\n   if (startIndex > endIndex) {\n   throw IllegalArgumentException(\"startIndex($startIndex) > endIndex($endIndex)\")\n   }\n   }\n\n   /**\n   * Removes the character at the specified [index] from this string builder and returns this instance.\n   *\n   * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n   *\n   * @param index the index of `Char` to remove.\n   *\n   * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   public fun deleteAt(index: Int): StringBuilder {\n   AbstractList.checkElementIndex(index, length)\n\n   string = string.substring(0, index) + string.substring(index + 1)\n   return this\n   }\n\n   /**\n   * Removes characters in the specified range from this string builder and returns this instance.\n   *\n   * @param startIndex the beginning (inclusive) of the range to remove.\n   * @param endIndex the end (exclusive) of the range to remove.\n   *\n   * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   public fun deleteRange(startIndex: Int, endIndex: Int): StringBuilder {\n   checkReplaceRange(startIndex, endIndex, length)\n\n   string = string.substring(0, startIndex) + string.substring(endIndex)\n   return this\n   }\n\n   /**\n   * Copies characters from this string builder into the [destination] character array.\n   *\n   * @param destination the array to copy to.\n   * @param destinationOffset the position in the array to copy to, 0 by default.\n   * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n   * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n   *\n   * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n   * @throws

IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n   * or when that index is out of the [destination] array indices range.\n   *\n @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   public fun toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {\n   AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n AbstractList.checkBoundsIndexes(destinationOffset, destinationOffset + endIndex - startIndex, destination.size)\n\n   var dstIndex = destinationOffset\n   for (index in startIndex until endIndex) {\n   destination[dstIndex++] = string[index]\n   }\n   }\n\n   /**\n   * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n   *\n   * Characters are appended in order, starting at specified [startIndex].\n   *\n   * @param value the array from which characters are appended.\n   * @param startIndex the beginning (inclusive) of the subarray to append.\n   * @param endIndex the end (exclusive) of the subarray to append.\n   *\n   * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n   *\n @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   public fun appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n   string += value.concatToString(startIndex, endIndex)\n   return this\n   }\n\n   /**\n   * Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n   *\n   * @param value the character sequence from which a subsequence is appended.\n   * @param startIndex the beginning (inclusive) of the subsequence to append.\n   * @param endIndex the end (exclusive) of the subsequence to append.\n   *\n   * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n   *\n @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   public fun appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder {\n   val stringCsq = value.toString()\n AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n\n   string += stringCsq.substring(startIndex, endIndex)\n   return this\n   }\n\n   /**\n   * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * The inserted characters go in same order as in the [value] array, starting at [index].\n   *\n   * @param index the position in this string builder to insert at.\n   * @param value the array from which characters are inserted.\n   * @param startIndex the beginning (inclusive) of the subarray to insert.\n   * @param endIndex the end (exclusive) of the subarray to insert.\n   *\n   * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n   *\n @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   public fun insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder {\n   AbstractList.checkPositionIndex(index, this.length)\n\n   string = string.substring(0, index) + value.concatToString(startIndex, endIndex) + string.substring(index)\n   return this\n   }\n\n   /**\n   * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n   *\n   * @param index the position in this string builder to insert at.\n   * @param value the character sequence from which a subsequence is inserted.\n   * @param startIndex the beginning (inclusive) of the subsequence to insert.\n   * @param endIndex the end (exclusive) of the subsequence to insert.\n   *\n   * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n   *\n @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   public fun insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder {\n   AbstractList.checkPositionIndex(index, length)\n\n   val stringCsq = value.toString()\n   AbstractList.checkBoundsIndexes(startIndex, endIndex, stringCsq.length)\n\n

string =

 string.substring(0, index) + stringCsq.substring(startIndex, endIndex) + string.substring(index)\n   return this\n }\n}\n\n\n/**\n * Clears the content of this string builder making it empty and returns this instance.\n *\n * @sample samples.text.Strings.clearStringBuilder\n

*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.clear(): StringBuilder = this.clear()\n\n/**\n * Sets the character at the specified [index] to the specified [value].\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHA DOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun StringBuilder.set(index: Int, value: Char) = this.set(index, value)\n\n/**\n * Replaces characters in the specified range of this string builder with characters in the specified string [value]

 and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n * @param value the string to replace with.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHA DOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder =\n   this.setRange(startIndex, endIndex, value)\n\n/**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n *\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n *\n * @param index the index of

 `Char` to remove.\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHA DOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.deleteAt(index: Int): StringBuilder = this.deleteAt(index)\n\n/**\n * Removes characters in the specified range from this string builder and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end (exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHA DOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder

 = this.deleteRange(startIndex, endIndex)\n\n/**\n * Copies characters from this string builder into the [destination] character array.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHA DOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\", \"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) =\n   this.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n/**\n * Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n *\n * Characters are appended in order, starting at specified [startIndex].\n *\n * @param value the array from which

characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\",

 \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n   this.appendRange(value, startIndex, endIndex)\n\n/**\n * Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex:

 Int): StringBuilder =\n   this.appendRange(value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive) of the subarray to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\",

 \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n   this.insertRange(index, value, startIndex, endIndex)\n\n/**\n * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex >

 endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n

/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\", \"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder =\n   this.insertRange(index, value, startIndex, endIndex)\n","/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n\n/**\n * Returns `true` if the content of this string is equal to the word \"true\", ignoring case, and `false` otherwise.\n */\n@Deprecated(\"Use Kotlin compiler 1.4 to avoid deprecation warning.\")\n@DeprecatedSinceKotlin(hiddenSince = \"1.4\")\n@kotlin.internal.InlineOnly\npublic actual

 inline fun String.toBoolean(): Boolean = this.toBoolean()\n\n/**\n * Returns `true` if this string is not `null` and its content is equal to the word \"true\", ignoring case, and `false` otherwise.\n *\n * There are also strict versions of the

function available on non-nullable String, [toBooleanStrict] and [toBooleanStrictOrNull].\n
*/\n@SinceKotlin(\"1.4\")\npublic actual fun String?.toBoolean(): Boolean = this != null && this.lowercase() ==
\"true\"\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun
String.toByte(): Byte = toByteOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a signed [Byte]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\npublic

 actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)\n\n\n/**\n * Parses the
string as a [Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toShort(): Short = toShortOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun
String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as
an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toInt(): Int = toIntOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the

 string as an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to
number conversion.\n */\npublic actual fun String.toInt(radix: Int): Int = toIntOrNull(radix) ?:
numberFormatError(this)\n\n/**\n * Parses the string as a [Long] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun
String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?: numberFormatError(this)\n\n/**\n *
Parses the string

 as a [Double] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toDouble(): Double =
(+(this.asDynamic())).unsafeCast<Double>().also {\n   if (it.isNaN() && !this.isNaN() || it == 0.0 &&
this.isBlank())\n   numberFormatError(this)}\n\n/**\n * Parses the string as a [Float] number and returns the
result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloat(): Float =
toDouble().unsafeCast<Float>()\n\n/**\n * Parses the string as a [Double] number and returns the result\n * or `null`
if the string is not a valid representation of a number.\n */\npublic actual fun String.toDoubleOrNull(): Double? =
(+(this.asDynamic())).unsafeCast<Double>().takeIf {\n   !(it.isNaN() && !this.isNaN() || it == 0.0 &&
this.isBlank())}\n}\n\n/**\n * Parses the string as a [Float] number

 and returns the result\n * or `null` if the string is not a valid representation of a number.\n
*/\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloatOrNull(): Float? =
toDoubleOrNull().unsafeCast<Float?>()\n\n/**\n * Returns a string representation of this [Byte] value in the
specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string
conversion.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Byte.toString(radix:
Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Short] value in the
specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string
conversion.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Short.toString(radix:
Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Int] value in the specified

[radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Int.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))\n\nprivate fun String.isNaN(): Boolean = when (this.lowercase()) {\n \"nan\", \"+nan\", \"-nan\" -> true\n   else -> false\n}\n\n/**\n * Checks whether the given [radix] is valid radix for string to number and number to string conversion.\n */\n@PublishedApi\ninternal actual fun checkRadix(radix: Int): Int {\n   if (radix !in 2..36) {\n   throw IllegalArgumentException(\"radix $radix was not in valid range 2..36\")\n   }\n   return radix\n}\n\ninternal actual fun digitOf(char: Char, radix: Int): Int = when {\n   char >= '0' && char <= '9' -> char - '0'\n   char >= 'A' && char <= 'Z' -> char - 'A' + 10\n   char >= 'a' && char <= 'z' -> char - 'a' + 10\n   char < '\\u0080' -> -1\n   char >= '\\uFF21' && char <= '\\uFF3A' -> char - '\\uFF21'

 + 10 // full-width latin capital letter\n   char >= '\\uFF41' && char <= '\\uFF5A' -> char - '\\uFF41' + 10 // full-width latin small letter\n   else -> char.digitToIntImpl()\n}.let { if (it >= radix) -1 else it }\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n * Provides enumeration values to use to set regular expression options.\n */\npublic actual enum class RegexOption(val value: String) {\n   /** Enables case-insensitive matching. */\n   IGNORE_CASE(\"i\"),\n   /** Enables multiline mode.\n   *\n   * In multiline mode the expressions `^` and `$` match just after or just before,\n   * respectively, a line terminator or the end of the input sequence. */\n   MULTILINE(\"m\")\n}\n\nprivate fun Iterable<RegexOption>.toFlags(prepend: String): String

 = joinToString(\"\", prefix = prepend) { it.value }\n\n/**\n * Represents the results from a single capturing group within a [MatchResult] of [Regex].\n *\n * @param value The value of captured group.\n */\npublic actual data class MatchGroup(actual val value: String)\n\n/**\n * Represents a compiled regular expression.\n * Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.\n *\n * For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)\n * and

[http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).\n *\n * Note that `RegExp` objects under the hood are constructed with [the \"u\" flag](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp/unicode)\n * that enables Unicode-related features in regular

 expressions. This also makes the pattern syntax more strict,\n * for example, prohibiting unnecessary escape sequences.\n *\n * @constructor Creates a regular expression from the specified [pattern] string and the specified set of [options].\n */\npublic actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {\n\n   /** Creates a regular expression from the specified [pattern] string and the specified single [option]. */\n   public actual constructor(pattern: String, option: RegexOption) : this(pattern, setOf(option))\n\n   /** Creates a regular expression from the specified [pattern] string and the default options. */\n   public actual constructor(pattern: String) : this(pattern, emptySet())\n\n\n   /** The pattern string of this regular expression. */\n   public actual val pattern: String = pattern\n   /** The set of options that were used to create this regular expression. */\n   public actual val options: Set<RegexOption> = options.toSet()\n

    private val nativePattern: RegExp = RegExp(pattern, options.toFlags(\"gu\"))\n   private var nativeStickyPattern: RegExp? = null\n   private fun initStickyPattern(): RegExp =\n   nativeStickyPattern ?: RegExp(pattern, options.toFlags(\"yu\")).also { nativeStickyPattern = it }\n\n   private var nativeMatchesEntirePattern: RegExp? = null\n   private fun initMatchesEntirePattern(): RegExp =\n   nativeMatchesEntirePattern ?: run {\n   if (pattern.startsWith('^') && pattern.endsWith('$'))\n   nativePattern\n   else\n   return RegExp(\"^${pattern.trimStart('^').trimEnd('$')}$\", options.toFlags(\"gu\"))\n   }.also { nativeMatchesEntirePattern = it }\n\n   /** Indicates whether the regular expression matches the entire [input]. */\n   public actual infix fun matches(input: CharSequence): Boolean {\n   nativePattern.reset()\n   val match = nativePattern.exec(input.toString())\n   return match != null && match.index

== 0 && nativePattern.lastIndex == input.length\n   }\n\n   /** Indicates whether the regular expression can find at least one match in the specified [input]. */\n   public actual fun containsMatchIn(input: CharSequence): Boolean {\n   nativePattern.reset()\n   return nativePattern.test(input.toString())\n   }\n\n   @SinceKotlin(\"1.5\")\n   @ExperimentalStdlibApi\n   public actual fun matchesAt(input: CharSequence, index: Int): Boolean {\n   if (index < 0 || index > input.length) {\n   throw IndexOutOfBoundsException(\"index out of bounds: $index, input length: ${input.length}\")\n   }\n   val pattern = initStickyPattern()\n   pattern.lastIndex = index\n   return pattern.test(input.toString())\n   }\n\n   /**\n   * Returns the first match of a regular expression in the [input], beginning at the specified [startIndex].\n   *\n   * @param startIndex An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()`\n   * @return An instance of [MatchResult] if match was found or `null` otherwise.\n   * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.\n   * @sample samples.text.Regexps.find\n   */\n   @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n   public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? {\n   if (startIndex < 0 || startIndex > input.length) {\n   throw IndexOutOfBoundsException(\"Start index out of bounds: $startIndex, input length: ${input.length}\")\n   }\n   return nativePattern.findNext(input.toString(), startIndex, nativePattern)\n   }\n\n   /**\n   * Returns a sequence of all occurrences of a regular expression within the [input] string, beginning at the specified [startIndex].\n   *\n   * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.\n   *\n   * @sample samples.text.Regexps.findAll\n   */\n   @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n   public actual fun findAll(input: CharSequence, startIndex: Int = 0): Sequence<MatchResult> {\n   if (startIndex < 0 || startIndex > input.length) {\n   throw IndexOutOfBoundsException(\"Start index out of bounds: $startIndex, input length: ${input.length}\")\n   }\n   return generateSequence({ find(input, startIndex) }, { match -> match.next() })\n   }\n\n   /**\n   * Attempts to match the entire [input] CharSequence against the pattern.\n   *\n   * @return An instance of [MatchResult] if the entire input matches or `null` otherwise.\n   */\n   public actual fun matchEntire(input: CharSequence): MatchResult? =\n   initMatchesEntirePattern().findNext(input.toString(), 0, nativePattern)\n\n   @SinceKotlin(\"1.5\")\n   @ExperimentalStdlibApi\n   public actual fun matchAt(input: CharSequence, index: Int): MatchResult? {\n   if (index < 0 || index > input.length) {\n   throw IndexOutOfBoundsException(\"index out of bounds: $index, input length: ${input.length}\")\n   }\n   return initStickyPattern().findNext(input.toString(), index, nativePattern)\n   }\n\n\n   /**\n   * Replaces all occurrences of this regular expression in the specified [input] string with specified [replacement] expression.\n   *\n   * The replacement string may contain references to the captured groups during a match. Occurrences of `$index`\n   * in the replacement string will be substituted with the subsequences corresponding to the captured groups with the specified index.\n   * The first digit after '$' is always treated as part of group reference. Subsequent digits are incorporated\n   * into `index` only if they would form a valid group reference. Only the digits '0'..'9' are considered as potential components\n   * of the group reference. Note that indexes of captured groups start from 1, and the group with index 0 is the whole match.\n   *\n   * Backslash character '\\' can be used to include the succeeding character as a literal in the replacement string, e.g, `\\$` or `\\\\`.\n   * [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string.\n   * Note that referring named capturing groups by name is currently not supported in Kotlin/JS.\n   * However, you can still refer them by index.\n   *\n   * @param input the char sequence to find matches of this regular expression in\n   * @param replacement the expression to replace found matches with\n   * @return the result of replacing each occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression\n   * @throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name` or `index` does not exist\n   */\n   public actual fun replace(input: CharSequence,

replacement: String): String {\n   if (!replacement.contains('\\\\') && !replacement.contains('$')) {\n   return input.toString().nativeReplace(nativePattern, replacement)\n   }\n   return replace(input) { substituteGroupRefs(it, replacement) }\n   }\n\n   /**\n   * Replaces all occurrences of this regular expression in the specified [input] string with the result of\n   * the given function [transform] that takes [MatchResult] and returns a string to be used as a\n   * replacement for that match.\n   */\n   public actual fun replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {\n   var match = find(input)\n   if (match == null) return input.toString()\n\n   var lastStart = 0\n   val length = input.length\n   val sb = StringBuilder(length)\n   do {\n   val foundMatch = match!!\n   sb.append(input, lastStart, foundMatch.range.start)\n   sb.append(transform(foundMatch))\n

lastStart = foundMatch.range.endInclusive + 1\n   match = foundMatch.next()\n   } while (lastStart < length && match != null)\n\n   if (lastStart < length) {\n   sb.append(input, lastStart, length)\n   }\n\n   return sb.toString()\n   }\n\n   /**\n   * Replaces the first occurrence of this regular expression in the specified [input] string with specified [replacement] expression.\n   *\n   * The replacement string may contain references to the captured groups during a match. Occurrences of `$index`\n   * in the replacement string will be substituted with the subsequences corresponding to the captured groups with the specified index.\n   * The first digit after '$' is always treated as part of group reference. Subsequent digits are incorporated\n   * into `index` only if they would form a valid group reference. Only the digits '0'..'9' are considered as potential components\n   * of the group reference. Note that indexes

 of captured groups start from 1, and the group with index 0 is the whole match.\n   *\n   * Backslash character '\\'\n can be used to include the succeeding character as a literal in the replacement string, e.g, `\\\$` or `\\\\`.\n   * [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string.\n   *\n   * Note that referring named capturing groups by name is not supported currently in Kotlin/JS.\n   * However, you can still refer them by index.\n   *\n   * @param input the char sequence to find a match of this regular expression in\n   *\n   * @param replacement the expression to replace the found match with\n   * @return the result of replacing the first occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression\n   *\n   * @throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name` or `index` does not exist\n   */\n   public actual fun

 replaceFirst(input: CharSequence, replacement: String): String {\n   if (!replacement.contains('\\\\') && !replacement.contains('$')) {\n   val nonGlobalOptions = options.toFlags(\"u\")\n   return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement)\n   }\n\n   val match = find(input) ?: return input.toString()\n\n   return buildString {\n   append(input.substring(0, match.range.first))\n   append(substituteGroupRefs(match, replacement))\n   append(input.substring(match.range.last + 1, input.length))\n   }\n   }\n\n   /**\n   * Splits the [input] CharSequence to a list of strings around matches of this regular expression.\n   *\n   * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.\n   * Zero by default means no limit is set.\n   */\n   @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n   public actual fun split(input:

 CharSequence, limit: Int = 0): List<String> {\n   requireNonNegativeLimit(limit)\n   val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\n   val result = mutableListOf<String>()\n   var lastStart = 0\n\n   for (match in matches) {\n   result.add(input.subSequence(lastStart, match.range.start).toString())\n   lastStart = match.range.endInclusive + 1\n   }\n   result.add(input.subSequence(lastStart, input.length).toString())\n   return result\n   }\n\n   /**\n   * Splits the [input] CharSequence to a sequence of strings around matches of this regular expression.\n   *\n   * @param limit Non-negative value specifying the maximum number of substrings the string can be split to.\n   * Zero by default means no limit is set.\n   * @sample samples.text.Regexps.splitToSequence\n   */\n   @SinceKotlin(\"1.6\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n

public actual fun splitToSequence(input: CharSequence, limit: Int = 0): Sequence<String> {\n requireNonNegativeLimit(limit)\n\n   return sequence {\n   var match = find(input)\n   if (match == null || limit == 1) {\n   yield(input.toString())\n   return@sequence\n   }\n\n   var nextStart = 0\n   var splitCount = 0\n\n   do {\n   val foundMatch = match!!\n   yield(input.substring(nextStart, foundMatch.range.first))\n   nextStart = foundMatch.range.endInclusive + 1\n   match = foundMatch.next()\n   } while (++splitCount != limit - 1 && match != null)\n\n   yield(input.substring(nextStart, input.length))\n   }\n }\n\n\n   /**\n   * Returns the string representation of this regular expression, namely the [pattern] of this regular expression.\n   *\n   * Note that another regular expression constructed from the same pattern string may have different [options]\n   * and may match strings differently.\n   */\n   public override fun toString(): String = nativePattern.toString()\n\n   actual companion object {\n   /**\n   * Returns a regular expression that matches the specified [literal] string literally.\n   * No characters of that string will have special meaning when searching for an occurrence of the regular expression.\n   */\n   public actual fun fromLiteral(literal: String): Regex = Regex(escape(literal))\n\n   /**\n   * Returns a regular expression pattern string that matches the specified [literal] string literally.\n   * No characters of that string will have special meaning when searching for an occurrence of the regular expression.\n   */\n   public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, \"\\\\$&\")\n\n   /**\n   * Returns a literal replacement expression for the specified [literal] string.\n   * No characters of that string will have special meaning when it is used as a replacement string in [Regex.replace] function.\n   */\n   public actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, \"\\\\$&\")\n\n   private val patternEscape = RegExp(\"\"\"[\\\\^$*+?.()|[\]{}]\"\"\", \"g\")\n   private val replacementEscape = RegExp(\"\"\"[\\\\$]\"\"\", \"g\")\n\n   internal fun nativeEscapeReplacement(literal: String): String = literal.nativeReplace(nativeReplacementEscape, \"$$$$\")\n   private val nativeReplacementEscape = RegExp(\"\"\"\\$\"\"\", \"g\")\n   }\n}\n\n\nprivate fun RegExp.findNext(input: String, from: Int, nextPattern: RegExp): MatchResult? {\n   this.lastIndex = from\n   val match = exec(input)\n   if (match == null) return null\n   val range = match.index..lastIndex - 1\n\n   return object : MatchResult {\n   override val range: IntRange = range\n   override val value: String\n   get() = match[0]!!\n\n   override val groups: MatchGroupCollection = object : MatchGroupCollection, AbstractCollection<MatchGroup?>() {\n   override val size: Int get() = match.length\n   override fun iterator(): Iterator<MatchGroup?> = indices.asSequence().map { this[it] }.iterator()\n   override fun get(index: Int): MatchGroup? = match[index]?.let { MatchGroup(it) }\n   }\n\n\n   private var groupValues_: List<String>? = null\n   override val groupValues: List<String>\n   get() {\n   if (groupValues_ == null) {\n   groupValues_ = object : AbstractList<String>() {\n   override val size: Int get() = match.length\n   override fun get(index: Int): String = match[index] ?: \"\"\n   }\n   }\n   return groupValues_!!\n   }\n\n   override fun next(): MatchResult? =\n   nextPattern.findNext(input, if (range.isEmpty()) advanceToNextCharacter(range.start) else range.endInclusive + 1, nextPattern)\n\n   private fun advanceToNextCharacter(index: Int): Int {\n   if (index < input.lastIndex) {\n   val code1 = input.asDynamic().charCodeAt(index).unsafeCast<Int>()\n   if (code1 in 0xD800..0xDBFF) {\n   val code2 = input.asDynamic().charCodeAt(index + 1).unsafeCast<Int>()\n   if (code2 in 0xDC00..0xDFFF) {\n   return index + 2\n   }\n   }\n   }\n   return index + 1\n   }\n   }\n}\n\n// The same code from K/N Regex.kt\nprivate fun substituteGroupRefs(match: MatchResult, replacement: String): String {\n   var index = 0\n   val result = StringBuilder(replacement.length)\n\n   while (index < replacement.length) {\n   val char = replacement[index++]\n   if (char == '\\\\') {\n   if (index == replacement.length)\n   throw IllegalArgumentException(\"The Char to be escaped is missing\")\n\n   result.append(replacement[index++])\n   } else if (char == '$') {\n   if (index == replacement.length)\n   throw IllegalArgumentException(\"Capturing group index is

missing\")\n\n   if (replacement[index] == '{')\n   throw IllegalArgumentException(\"Named capturing group reference currently is not supported\")\n\n   if (replacement[index] !in '0'..'9')\n   throw IllegalArgumentException(\"Invalid capturing group reference\")\n\n   val endIndex = replacement.readGroupIndex(index, match.groupValues.size)\n   val groupIndex = replacement.substring(index, endIndex).toInt()\n\n   if (groupIndex >= match.groupValues.size)\n   throw IndexOutOfBoundsException(\"Group with index $groupIndex does not exist\")\n\n   result.append(match.groupValues[groupIndex])\n

        index = endIndex\n   } else {\n   result.append(char)\n   }\n }\n   return result.toString()\n}\n\nprivate fun String.readGroupIndex(startIndex: Int, groupCount: Int): Int {\n   // at least one digit after '$' is always captured\n   var index = startIndex + 1\n   var groupIndex = this[startIndex] - '0'\n\n   // capture the largest valid group index\n   while (index < length && this[index] in '0'..'9') {\n   val newGroupIndex = (groupIndex * 10) + (this[index] - '0')\n   if (newGroupIndex in 0 until groupCount) {\n   groupIndex = newGroupIndex\n   index++\n   } else {\n   break\n   }\n   }\n   return index\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n@file:Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")\n\npackage kotlin.text\n\nimport kotlin.contracts.*\n\n/**\n * A mutable sequence of characters.\n *\n * String builder can be used to efficiently perform multiple string manipulation operations.\n */\nexpect class StringBuilder : Appendable, CharSequence {\n   /** Constructs an empty string builder. */\n   constructor()\n\n   /** Constructs an empty string builder with the specified initial [capacity]. */\n   constructor(capacity: Int)\n\n   /** Constructs a string builder that contains the same characters as the specified [content] char sequence. */\n   constructor(content: CharSequence)\n\n   /** Constructs a string builder that contains the same characters as the specified [content] string. */\n   @SinceKotlin(\"1.3\")\n//   @ExperimentalStdlibApi\n   constructor(content: String)\n\n   override val length: Int\n\n   override operator fun get(index: Int): Char\n\n   override fun subSequence(startIndex: Int, endIndex: Int): CharSequence\n\n   override fun append(value: Char): StringBuilder\n   override fun append(value: CharSequence?): StringBuilder\n   override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder\n\n   /**\n   * Reverses the contents of this string builder and returns this instance.\n   *\n   * Surrogate pairs included in this string builder are treated as single characters.\n   * Therefore, the order of the high-low surrogates is never reversed.\n   *\n   * Note that the reverse operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the operation.\n   * For example, reversing `\"\\uDC00\\uD800\"` produces `\"\\uD800\\uDC00\"` which is a valid surrogate pair.\n   */\n   fun reverse(): StringBuilder\n\n   /**\n   * Appends the string representation of the specified object [value] to this string builder and returns this instance.\n   *\n   * The overall

 effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n   * and then that string was appended to this string builder.\n   */\n   fun append(value: Any?): StringBuilder\n\n   /**\n   * Appends the string representation of the specified boolean [value] to this string builder and returns this instance.\n   *\n   * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n   * and then that string was appended to this string builder.\n   */\n   @SinceKotlin(\"1.3\")\n   fun append(value: Boolean): StringBuilder\n\n   /**\n   * Appends characters in the specified character array [value] to this string builder and returns this instance.\n   *\n   * Characters are appended in order, starting at the index 0.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun append(value: CharArray): StringBuilder\n\n   /**\n   * Appends the

 specified string [value] to this string builder and returns this instance.\n   *\n   * If [value] is `null`, then the four characters `\"null\"` are appended.\n   */\n   @SinceKotlin(\"1.3\")\n   fun append(value: String?): StringBuilder\n\n   /**\n   * Returns the current capacity of this string builder.\n   *\n   * The capacity is the maximum length this string builder can have before an allocation occurs.\n   */\n   @SinceKotlin(\"1.3\")\n//   @ExperimentalStdlibApi\n   @Deprecated(\"Obtaining StringBuilder capacity is not supported in JS and common

code.\", level = DeprecationLevel.ERROR)\n   fun capacity(): Int\n\n   /**\n   * Ensures that the capacity of this string builder is at least equal to the specified [minimumCapacity].\n   *\n   * If the current capacity is less than the [minimumCapacity], a new backing storage is allocated with greater capacity.\n   * Otherwise, this method takes no action and simply returns.\n   */\n   @SinceKotlin(\"1.4\")\n

   @WasExperimental(ExperimentalStdlibApi::class)\n   fun ensureCapacity(minimumCapacity: Int)\n\n   /**\n * Returns the index within this string builder of the first occurrence of the specified [string].\n   *\n   * Returns `-1` if the specified [string] does not occur in this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun indexOf(string: String): Int\n\n   /**\n   * Returns the index within this string builder of the first occurrence of the specified [string],\n   * starting at the specified [startIndex].\n   *\n   * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun indexOf(string: String, startIndex: Int): Int\n\n   /**\n   * Returns the index within this string builder of the last occurrence of the specified [string].\n   *

 The last occurrence of empty string `\"\"` is considered to be at the index equal to `this.length`.\n   *\n   * Returns `-1` if the specified [string] does not occur in this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun lastIndexOf(string: String): Int\n\n   /**\n   * Returns the index within this string builder of the last occurrence of the specified [string],\n   * starting from the specified [startIndex] toward the beginning.\n   *\n   * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun lastIndexOf(string: String, startIndex: Int): Int\n\n   /**\n   * Inserts the string representation of the specified boolean [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * The overall effect is exactly as

 if the [value] were converted to a string by the `value.toString()` method,\n   * and then that string was inserted into this string builder at the specified [index].\n   *\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun insert(index: Int, value: Boolean): StringBuilder\n\n   /**\n   * Inserts the specified character [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun insert(index: Int, value: Char): StringBuilder\n\n   /**\n   * Inserts characters in the specified character array [value] into this string builder at the specified [index] and returns this

 instance.\n   *\n   * The inserted characters go in same order as in the [value] character array, starting at [index].\n   *\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun insert(index: Int, value: CharArray): StringBuilder\n\n   /**\n   * Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n   *\n   * @param index the position in this string builder to insert at.\n   * @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `\"null\"` are inserted.\n   *\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater

 than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun insert(index: Int, value: CharSequence?): StringBuilder\n\n   /**\n   * Inserts the string representation of the specified object [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method,\n   * and then that string was inserted into this string builder at the specified [index].\n   *\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun insert(index: Int, value: Any?): StringBuilder\n\n   /**\n

* Inserts the string [value] into this string builder at the specified [index] and returns this instance.\n   *\n   * If [value]
 is `null`, then the four characters `\"null\"` are inserted.\n   *\n   * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun insert(index: Int, value: String?): StringBuilder\n\n   /**\n   * Sets the length of this string builder to the specified [newLength].\n   *\n   * If the [newLength] is less than the current length, it is changed to the specified [newLength].\n   * Otherwise, null characters '\\u0000' are appended to this string builder until its length is less than the [newLength].\n   *\n   * Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.\n   * Therefore, increasing length of this string builder and then updating each character by index may slow down your program.\n   *\n   * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength]
 is less than zero.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun setLength(newLength: Int)\n\n   /**\n   * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).\n   *\n   * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun substring(startIndex: Int): String\n\n   /**\n   * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).\n   *\n   * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n
    fun substring(startIndex: Int, endIndex: Int): String\n\n   /**\n   * Attempts to reduce storage used for this string builder.\n   *\n   * If the backing storage of this string builder is larger than necessary to hold its current contents,\n   * then it may be resized to become more space efficient.\n   * Calling this method may, but is not required to, affect the value of the [capacity] property.\n   */\n   @SinceKotlin(\"1.4\")\n   @WasExperimental(ExperimentalStdlibApi::class)\n   fun trimToSize()\n}\n\n\n/**\n * Clears the content of this string builder making it empty and returns this instance.\n *\n * @sample samples.text.Strings.clearStringBuilder\n */\n@SinceKotlin(\"1.3\")\npublic expect fun StringBuilder.clear(): StringBuilder\n\n/**\n * Sets the character at the specified [index] to the specified [value].\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
 expect operator fun StringBuilder.set(index: Int, value: Char)\n\n/**\n * Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to replace.\n * @param endIndex the end (exclusive) of the range to replace.\n * @param value the string to replace with.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder\n\n/**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n *\n * If the `Char` at the specified [index] is part of a supplementary code point, this method
 does not remove the entire supplementary character.\n *\n * @param index the index of `Char` to remove.\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.deleteAt(index: Int): StringBuilder\n\n/**\n * Removes characters in the specified range from this string builder and returns this instance.\n *\n * @param startIndex the beginning (inclusive) of the range to remove.\n * @param endIndex the end (exclusive) of the range to remove.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Copies characters from this string builder into the [destination]

 character array.\n *\n * @param destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n *\n*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length)\n\n/**\n * Appends characters in

 a subarray of the specified character array [value] to this string builder and returns this instance.\n *\n * Characters are appended in order, starting at specified [startIndex].\n *\n * @param value the array from which characters are appended.\n * @param startIndex the beginning (inclusive) of the subarray to append.\n * @param endIndex the end (exclusive) of the subarray to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n *\n*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Appends a subsequence of the specified character sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning

 (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n *\n*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts characters in a subarray of the specified character array [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in same order as in the [value] array, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the array from which characters are inserted.\n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * @param endIndex the end (exclusive)

 of the subarray to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.insertRange(index: Int, value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts characters in a subsequence of the specified character sequence [value] into this string builder at the specified [index] and returns this instance.\n *\n * The inserted characters go in the same order as in the [value] character sequence, starting at [index].\n *\n * @param index the position in this string builder to insert at.\n * @param value the character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive)

 of the subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.\n *\n*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\")\n@Deprecated(\"Use

append(value: Any?) instead\", ReplaceWith(\"append(value = obj)\"),
DeprecationLevel.WARNING)\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.append(obj: Any?):
StringBuilder = this.append(obj)\n\n/**\n * Builds new string by populating newly created [StringBuilder] using
provided [builderAction]\n

* and then converting it to [String].\n */\n@kotlin.internal.InlineOnly\npublic inline fun buildString(builderAction:
StringBuilder.() -> Unit): String {\n   contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)
}\n   return StringBuilder().apply(builderAction).toString()\n}\n\n/**\n * Builds new string by populating newly
created [StringBuilder] initialized with the given [capacity]\n * using provided [builderAction] and then converting
it to [String].\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun buildString(capacity: Int,
builderAction: StringBuilder.() -> Unit): String {\n   contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n   return
StringBuilder(capacity).apply(builderAction).toString()\n}\n\n/**\n * Appends all arguments to the given
StringBuilder.\n */\npublic fun StringBuilder.append(vararg value: String?): StringBuilder {\n   for (item in
value)\n   append(item)\n   return this\n}\n\n/**\n * Appends

all arguments to the given StringBuilder.\n */\npublic fun StringBuilder.append(vararg value: Any?): StringBuilder
{\n   for (item in value)\n   append(item)\n   return this\n}\n\n/** Appends a line feed character (`\\n`) to this
StringBuilder. */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(): StringBuilder = append('\\n')\n\n/** Appends [value] to this [StringBuilder], followed
by a line feed character (`\\n`). */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: CharSequence?): StringBuilder = append(value).appendLine()\n\n/** Appends
[value] to this [StringBuilder], followed by a line feed character (`\\n`).

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
String?): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this [StringBuilder], followed by a
line feed character (`\\n`). */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic

inline fun StringBuilder.appendLine(value: Any?): StringBuilder = append(value).appendLine()\n\n/** Appends
[value] to this [StringBuilder], followed by a line feed character (`\\n`).

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
CharArray): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this [StringBuilder], followed
by a line feed character (`\\n`). */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: Char): StringBuilder = append(value).appendLine()\n\n/** Appends [value] to this
[StringBuilder], followed by a line feed character (`\\n`).

*/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
Boolean): StringBuilder = append(value).appendLine()\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source

code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.text\n\nimport kotlin.js.RegExp\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun
String.nativeIndexOf(ch: Char, fromIndex: Int): Int = nativeIndexOf(ch.toString(),
fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(ch: Char,
fromIndex: Int): Int = nativeLastIndexOf(ch.toString(), fromIndex)\n\n/**\n * Returns `true` if this string starts with
the specified prefix.\n */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
actual fun String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {\n   if (!ignoreCase)\n   return
nativeStartsWith(prefix, 0)\n   else\n   return regionMatches(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n *
Returns `true` if a substring of this string starting at the specified offset [startIndex] starts with the specified prefix.\n
*/\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic

actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n   if
(!ignoreCase)\n   return nativeStartsWith(prefix, startIndex)\n   else\n   return regionMatches(startIndex,
prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this string ends with the specified suffix.\n
*/\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun

String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {\n   if (!ignoreCase)\n   return nativeEndsWith(suffix)\n   else\n   return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n\n@Deprecated(\"Use Regex.matches() instead\", ReplaceWith(\"regex.toRegex().matches(this)\"))\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\npublic fun String.matches(regex: String): Boolean {\n   @Suppress(\"DEPRECATION\")\n   val result = this.match(regex)\n   return result != null

 && result.size != 0\n}\n\n/**\n * Returns `true` if this string is empty or consists solely of whitespace characters.\n *\n * @sample samples.text.Strings.stringIsBlank\n */\npublic actual fun CharSequence.isBlank(): Boolean = length == 0 || indices.all { this[it].isWhitespace() }\n\n/**\n * Returns `true` if this string is equal to [other], optionally ignoring character case.\n *\n * Two strings are considered to be equal if they have the same length and the same character at the same index.\n * If [ignoreCase] is true, the result of `Char.uppercaseChar().lowercaseChar()` on each character is compared.\n *\n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean {\n   if (this == null) return other == null\n

  if (other == null) return false\n   if (!ignoreCase) return this == other\n\n   if (this.length

 != other.length) return false\n   for (index in 0 until this.length) {\n   val thisChar = this[index]\n   val otherChar = other[index]\n   if (!thisChar.equals(otherChar, ignoreCase)) {\n   return false\n   }\n   }\n\n   return true\n}\n\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean = false): Boolean =\n   regionMatchesImpl(thisOffset, other, otherOffset, length, ignoreCase)\n\n\n/**\n * Returns a copy of this string having its first letter titlecased using the rules of the default locale,\n * or the original string if it's empty or already starts with a title case letter.\n *\n * The title case of a character is usually the same as its upper case with several exceptions.\n * The particular list of characters with the special title case form depends on the underlying platform.\n *\n * @sample samples.text.Strings.capitalize\n

 */\n@Deprecated(\"Use replaceFirstChar instead.\", ReplaceWith(\"replaceFirstChar { if (it.isLowerCase()) it.titlecase() else it.toString() }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic actual fun String.capitalize(): String {\n   return if (isNotEmpty()) substring(0, 1).uppercase() + substring(1) else this\n}\n\n/**\n * Returns a copy of this string having its first letter lowercased using the rules of the default locale,\n * or the original string if it's empty or already starts with a lower case letter.\n *\n * @sample samples.text.Strings.decapitalize\n */\n@Deprecated(\"Use replaceFirstChar instead.\", ReplaceWith(\"replaceFirstChar { it.lowercase() }\"))\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic actual fun String.decapitalize(): String {\n   return if (isNotEmpty()) substring(0, 1).lowercase() + substring(1) else this\n}\n\n/**\n * Returns a string containing this char sequence repeated [n] times.\n * @throws [IllegalArgumentException]

 when n < 0.\n * @sample samples.text.Strings.repeat\n */\npublic actual fun CharSequence.repeat(n: Int): String {\n   require(n >= 0) { \"Count 'n' must be non-negative, but was $n.\" }\n   return when (n) {\n   0 -> \"\"\n   1 -> this.toString()\n   else -> {\n   var result = \"\"\n   if (!isEmpty()) {\n   var s = this.toString()\n   var count = n\n   while (true) {\n   if ((count and 1) == 1) {\n   result += s\n   }\n   count = count ushr 1\n   if (count == 0) {\n   break\n   }\n   s += s\n   }\n   }\n   return result\n   }\n   }\n}\n\n/**\n * Returns a new string obtained by replacing all occurrences of the [oldValue] substring in this string\n * with the specified [newValue] string.\n *\n * @sample samples.text.Strings.replace\n

 */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n   nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"gui\" else \"gu\"), Regex.nativeEscapeReplacement(newValue))\n\n/**\n * Returns a new string with all occurrences of [oldChar] replaced with [newChar].\n *\n * @sample samples.text.Strings.replace\n */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun

String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"gui\" else \"gu\"), newChar.toString()))\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"ui\" else \"u\"), Regex.nativeEscapeReplacement(newValue))\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGU MENTS\")\npublic

actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"ui\" else \"u\"), newChar.toString()))\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/** Returns the negative [size] if [throwOnMalformed] is false, throws [CharacterCodingException] otherwise. */\nprivate fun malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int {\n   if (throwOnMalformed) throw CharacterCodingException(\"Malformed sequence starting at ${index - 1}\")\n   return -size\n}\n\n/**\n * Returns code point corresponding to UTF-16 surrogate pair,\n * where the first of the pair is the [high] and the second

is in the [string] at the [index].\n * Returns zero if the pair is malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n   if (high !in 0xD800..0xDBFF || index >= endIndex) {\n   return malformed(0, index, throwOnMalformed)\n   }\n   val low = string[index].code\n   if (low !in 0xDC00..0xDFFF) {\n   return malformed(0, index, throwOnMalformed)\n   }\n   return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of two bytes,\n * where the first byte of the sequence is the [byte1] and the second byte is in the [bytes] array at the [index].\n * Returns zero if the sequence is malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the sequence of two bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n   if (byte1 and 0x1E == 0 || index >= endIndex) {\n   return malformed(0, index, throwOnMalformed)\n   }\n   val byte2 = bytes[index].toInt()\n   if (byte2 and 0xC0 != 0x80) {\n   return malformed(0, index, throwOnMalformed)\n   }\n   return (byte1 shl 6) xor byte2 xor 0xF80\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the sequence of three bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom3(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n   if (index >= endIndex) {\n   return malformed(0, index, throwOnMalformed)\n   }\n\n   val byte2 = bytes[index].toInt()\n   if (byte1 and 0xF == 0) {\n   if (byte2 and 0xE0 != 0xA0) {\n   // Non-shortest form\n   return malformed(0, index, throwOnMalformed)\n   }\n   } else if (byte1 and 0xF == 0xD) {\n   if (byte2 and 0xE0 != 0x80) {\n   // Surrogate code point\n   return malformed(0, index, throwOnMalformed)\n   }\n   } else if (byte2 and 0xC0 != 0x80) {\n   return malformed(0, index, throwOnMalformed)\n   }\n\n   if (index + 1 == endIndex) {\n   return malformed(1, index, throwOnMalformed)\n   }\n   val byte3 = bytes[index + 1].toInt()\n   if (byte3 and 0xC0 != 0x80) {\n   return malformed(1, index, throwOnMalformed)\n   }\n\n   return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -0x1E080\n}\n\n/**\n * Returns code point

corresponding to UTF-8 sequence of four bytes,\n * where the first byte of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the sequence of four bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom4(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed:

Boolean): Int {\n   if (index >= endIndex) {\n   malformed(0, index, throwOnMalformed)\n   }\n\n   val byte2 = bytes[index].toInt()\n   if (byte1 and 0xF == 0x0) {\n   if (byte2 and 0xF0 <= 0x80) {\n   // Non-shortest form\n   return malformed(0, index, throwOnMalformed)\n   }\n   } else if (byte1 and 0xF == 0x4) {\n   if (byte2 and 0xF0 != 0x80) {\n   // Out of Unicode code points domain (larger than U+10FFFF)\n   return malformed(0, index, throwOnMalformed)\n   }\n   } else if (byte1 and 0xF > 0x4) {\n   return malformed(0, index, throwOnMalformed)\n   } else if (byte2 and 0xC0 != 0x80) {\n   return malformed(0, index, throwOnMalformed)\n   }\n\n   if (index + 1 == endIndex) {\n   return malformed(1, index, throwOnMalformed)\n   }\n   val byte3 = bytes[index + 1].toInt()\n   if (byte3 and 0xC0 != 0x80) {\n   return malformed(1, index, throwOnMalformed)\n   }\n\n   if (index + 2 == endIndex) {\n   return malformed(2, index, throwOnMalformed)\n   }\n   val byte4 = bytes[index + 2].toInt()\n   if (byte4 and 0xC0 != 0x80) {\n   return malformed(2, index, throwOnMalformed)\n   }\n   return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor byte4 xor 0x381F80\n}\n\n/**\n * Maximum number of bytes needed to encode a single char.\n *\n * Code points in `0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded in two bytes.\n * Code points in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate code points in `0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in `0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate const val MAX_BYTES_PER_CHAR = 3\n\n/**\n * The byte sequence a malformed UTF-16 char sequence is replaced by.\n */\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(), 0xBF.toByte(), 0xBD.toByte())\n\n/**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n *\n * @param string the string to encode.\n * @param startIndex the start offset (inclusive) of the substring to encode.\n * @param endIndex the end offset (exclusive) of the substring to encode.\n * @param throwOnMalformed whether to throw on malformed char sequence or replace by the [REPLACEMENT_BYTE_SEQUENCE].\n *\n * @throws CharacterCodingException if the char sequence is malformed and [throwOnMalformed] is true.\n */\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {\n   require(startIndex >= 0 && endIndex <= string.length && startIndex <= endIndex)\n   val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\n   var byteIndex = 0\n   var charIndex = startIndex\n\n   while (charIndex < endIndex) {\n   val code = string[charIndex++].code\n   when {\n   code < 0x80 ->\n   bytes[byteIndex++] = code.toByte()\n   code < 0x800 -> {\n   bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\n   bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n   }\n   code < 0xD800 || code >= 0xE000 -> {\n   bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n   bytes[byteIndex++] = (((code shr 6) and 0x3F) or 0x80).toByte()\n   bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n   }\n   else -> { // Surrogate char value\n   val codePoint = codePointFromSurrogate(string, code, charIndex, endIndex, throwOnMalformed)\n   if (codePoint <= 0) {\n   bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[0]\n   bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[1]\n   bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[2]\n   } else {\n   bytes[byteIndex++] = ((codePoint shr 18) or 0xF0).toByte()\n   bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n   bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n   bytes[byteIndex++] = ((codePoint and 0x3F) or 0x80).toByte()\n   charIndex++\n   }\n   }\n   }\n   }\n\n   return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/**\n * The character a malformed UTF-8 byte sequence is replaced by.\n */\nprivate const val REPLACEMENT_CHAR = '\\uFFFD'\n\n/**\n * Decodes the UTF-8 [bytes] array and returns the resulting [String].\n *\n * @param bytes the byte array to decode.\n * @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param endIndex the end offset (exclusive) of the array to be encoded.\n * @param throwOnMalformed whether to throw on malformed byte sequence or replace by the [REPLACEMENT_CHAR].\n *\n * @throws CharacterCodingException if the array is malformed UTF-8 byte

sequence and [throwOnMalformed] is true.\n */\ninternal fun decodeUtf8(bytes: ByteArray, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n   require(startIndex >= 0 && endIndex <= bytes.size && startIndex <= endIndex)\n\n   var byteIndex = startIndex\n   val stringBuilder = StringBuilder()\n\n   while (byteIndex < endIndex) {\n   val byte
 = bytes[byteIndex++].toInt()\n   when {\n   byte >= 0 ->\n   stringBuilder.append(byte.toChar())\n   byte shr 5 == -2 -> {\n   val code = codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n   if (code <= 0) {\n   stringBuilder.append(REPLACEMENT_CHAR)\n   byteIndex += -code\n   } else {\n   stringBuilder.append(code.toChar())\n   byteIndex += 1\n   }\n   }\n   byte shr 4 == -2 -> {\n   val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n   if (code <= 0) {\n   stringBuilder.append(REPLACEMENT_CHAR)\n   byteIndex += -code\n   } else {\n   stringBuilder.append(code.toChar())\n   byteIndex += 2\n   }\n   }\n   byte shr 3 == -2 -> {\n
                val code = codePointFrom4(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n   if (code <= 0)
{\n   stringBuilder.append(REPLACEMENT_CHAR)\n   byteIndex += -code\n   } else
{\n   val high = (code - 0x10000) shr 10 or 0xD800\n   val low = (code and 0x3FF) or
0xDC00\n   stringBuilder.append(high.toChar())\n   stringBuilder.append(low.toChar())\n
        byteIndex += 3\n   }\n   }\n   else -> {\n   malformed(0, byteIndex, throwOnMalformed)\n   stringBuilder.append(REPLACEMENT_CHAR)\n   }\n   }\n   }\n\n   return stringBuilder.toString()\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\n/**\n
 * Returns the detailed description of this throwable with its stack trace.\n *\n * The detailed description includes:\n * - the short description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of each throwable in the [Throwable.cause] chain.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun Throwable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString] of this throwable to console error output.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun Throwable.printStackTrace() {\n   console.error(this.stackTraceToString())\n}\n\n/**\n * Adds the specified exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n */\n@SinceKotlin(\"1.4\")\npublic actual fun Throwable.addSuppressed(exception:
 Throwable) {\n   if (this !== exception) {\n   val suppressed = this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable>?>()\n   if (suppressed == null) {\n   this.asDynamic()._suppressed = mutableListOf(exception)\n   } else {\n   suppressed.add(exception)\n   }\n   }\n}\n\n/**\n * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n */\n@SinceKotlin(\"1.4\")\npublic actual val Throwable.suppressedExceptions: List<Throwable>\n   get() {\n   return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?: emptyList()\n   }\n\n\nprivate class ExceptionTraceBuilder {\n   private val target = StringBuilder()\n   private val visited = arrayOf<Throwable>()\n   private var topStack: String = \"\"\n   private var topStackStart: Int = 0\n\n   fun buildFor(exception: Throwable): String {\n   exception.dumpFullTrace(\"\", \"\")\n   return target.toString()\n   }\n\n
    private fun hasSeen(exception: Throwable): Boolean = visited.any { it === exception }\n\n   private fun Throwable.dumpFullTrace(indent: String, qualifier: String) {\n   this.dumpSelfTrace(indent, qualifier) || return\n\n   var cause = this.cause\n   while (cause != null) {\n   cause.dumpSelfTrace(indent, \"Caused by: \") || return\n   cause = cause.cause\n   }\n   }\n\n   private fun Throwable.dumpSelfTrace(indent: String, qualifier: String): Boolean {\n   target.append(indent).append(qualifier)\n   val shortInfo = this.toString()\n   if (hasSeen(this)) {\n   target.append(\"[CIRCULAR REFERENCE, SEE ABOVE: \").append(shortInfo).append(\"]\\n\")\n   return false\n   }\n   visited.asDynamic().push(this)\n\n   var

stack = this.asDynamic().stack as String?\n   if (stack != null) {\n   val stackStart = stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }\n

    if (stackStart == 0) target.append(shortInfo).append(\"\\n\")\n   if (topStack.isEmpty()) {\n topStack = stack\n   topStackStart = stackStart\n   } else {\n   stack = dropCommonFrames(stack, stackStart)\n   }\n   if (indent.isNotEmpty()) {\n   // indent stack, but avoid indenting exception message lines\n   val messageLines = if (stackStart == 0) 0 else 1 + shortInfo.count { c -> c == '\\n' }\n   stack.lineSequence().forEachIndexed { index: Int, line: String ->\n

        if (index >= messageLines) target.append(indent)\n   target.append(line).append(\"\\n\")\n   }\n   } else {\n   target.append(stack).append(\"\\n\")\n   }\n   } else {\n target.append(shortInfo).append(\"\\n\")\n   }\n\n   val suppressed = suppressedExceptions\n   if (suppressed.isNotEmpty()) {\n

        val suppressedIndent = indent + \"   \"\n   for (s in suppressed) {\n   s.dumpFullTrace(suppressedIndent, \"Suppressed: \")\n   }\n   }\n   return true\n   }\n\n   private fun dropCommonFrames(stack: String, stackStart: Int): String {\n   var commonFrames: Int = 0\n   var lastBreak: Int = 0\n   var preLastBreak: Int = 0\n   for (pos in 0 until minOf(topStack.length - topStackStart, stack.length - stackStart)) {\n   val c = stack[stack.lastIndex - pos]\n   if (c != topStack[topStack.lastIndex - pos]) break\n   if (c == '\\n') {\n   commonFrames += 1\n   preLastBreak = lastBreak\n   lastBreak = pos\n   }\n   }\n   if (commonFrames <= 1) return stack\n   while (preLastBreak > 0 && stack[stack.lastIndex - (preLastBreak - 1)] == ' ')\n   preLastBreak -= 1\n\n   // leave 1 common frame to ease matching with the top exception stack\n   return stack.dropLast(preLastBreak) + \"... and ${commonFrames - 1} more common stack frames skipped\\n   }\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.js.json\nimport kotlin.math.*\n\ninternal actual inline val durationAssertionsEnabled: Boolean get() = true\n\ninternal actual fun formatToExactDecimals(value: Double, decimals: Int): String {\n   val rounded = if (decimals == 0) {\n   value\n   } else {\n   val pow = 10.0.pow(decimals)\n   JsMath.round(abs(value) * pow) / pow * sign(value)\n   }\n   return if (abs(rounded) < 1e21) {\n   // toFixed switches to scientific format after 1e21\n   rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n   } else {\n   // toPrecision outputs the specified number of digits,

 but only for positive numbers\n   val positive = abs(rounded)\n   val positiveString = positive.asDynamic().toPrecision(ceil(log10(positive)) + decimals).unsafeCast<String>()\n   if (rounded < 0) \"-$positiveString\" else positiveString\n   }\n}\n\ninternal actual fun formatUpToDecimals(value: Double, decimals: Int): String {\n   return value.asDynamic().toLocaleString(\"en-us\", json(\"maximumFractionDigits\" to decimals)).unsafeCast<String>()\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic actual enum class DurationUnit(internal val scale: Double) {\n   /**\n   * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n   */\n   NANOSECONDS(1e0),\n   /**\n   * Time unit representing

 one microsecond, which is 1/1000 of a millisecond.\n   */\n   MICROSECONDS(1e3),\n   /**\n   * Time unit representing one millisecond, which is 1/1000 of a second.\n   */\n   MILLISECONDS(1e6),\n   /**\n   * Time unit representing one second.\n   */\n   SECONDS(1e9),\n   /**\n   * Time unit representing one minute.\n   */\n   MINUTES(60e9),\n   /**\n   * Time unit representing one hour.\n   */\n   HOURS(3600e9),\n   /**\n   * Time unit representing one day, which is always equal to 24 hours.\n   */\n   DAYS(86400e9);\n}\n\n@SinceKotlin(\"1.3\")\ninternal actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\n   val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n   return when {\n   sourceCompareTarget > 0 -> value *

(sourceUnit.scale / targetUnit.scale)\n   sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale)\n   else -> value\n

 }\n}\n\n@SinceKotlin(\"1.5\")\ninternal actual fun convertDurationUnitOverflow(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long {\n   val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n   return when {\n   sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale).toLong()\n   sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale).toLong()\n   else -> value\n   }\n}\n\n@SinceKotlin(\"1.5\")\ninternal actual fun convertDurationUnit(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long {\n   val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n   return when {\n sourceCompareTarget > 0 -> {\n   val scale = (sourceUnit.scale / targetUnit.scale).toLong()\n   val result = value * scale\n   when {\n   result / scale == value -> result\n   value > 0 -> Long.MAX_VALUE\n   else -> Long.MIN_VALUE\n

        }\n   }\n   sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale).toLong()\n else -> value\n   }\n}\n\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport org.w3c.performance.GlobalPerformance\nimport org.w3c.performance.Performance\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal actual object MonotonicTimeSource : TimeSource {\n\n   private val actualSource: TimeSource = run {\n   val isNode: Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\n\n   if (isNode)\n   HrTimeSource(js(\"process\").unsafeCast<Process>())\n   else\n   js(\"self\").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceTimeSource)\n   ?: DateNowTimeSource\n\n

    }\n\n   override fun markNow(): TimeMark = actualSource.markNow()\n}\n\ninternal external interface Process {\n   fun hrtime(time: Array<Double> = definedExternally): Array<Double>\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal class HrTimeSource(val process: Process) : TimeSource {\n\n   override fun markNow(): TimeMark = object : TimeMark() {\n   val startedAt = process.hrtime()\n   override fun elapsedNow(): Duration =\n   process.hrtime(startedAt).let { (seconds, nanos) -> seconds.toDuration(DurationUnit.SECONDS) + nanos.toDuration(DurationUnit.NANOSECONDS) }\n   }\n\n   override fun toString(): String = \"TimeSource(process.hrtime())\"\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal class PerformanceTimeSource(val performance: Performance) : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {\n   override fun read(): Double = performance.now()\n   override fun toString(): String = \"TimeSource(self.performance.now())\"\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal object DateNowTimeSource : AbstractDoubleTimeSource(unit = DurationUnit.MILLISECONDS) {\n   override fun read(): Double = kotlin.js.Date.now()\n   override fun toString(): String = \"TimeSource(Date.now())\"\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlinx.dom\n\nimport org.w3c.dom.*\nimport kotlin.contracts.*\n\n/**\n * Creates a new element with the specified [name].\n *\n * The element is initialized with the specified [init] function.\n */\n@SinceKotlin(\"1.4\")\npublic fun Document.createElement(name: String, init: Element.() -> Unit): Element {\n   contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }\n   return createElement(name).apply(init)\n}\n\n/**\n * Appends a newly created element with the specified [name] to this element.\n

 *\n * The element is initialized with the specified [init] function.\n */\n@SinceKotlin(\"1.4\")\npublic fun Element.appendElement(name: String, init: Element.() -> Unit): Element {\n   contract { callsInPlace(init, InvocationKind.EXACTLY_ONCE) }\n   return ownerDocument!!.createElement(name, init).also { appendChild(it) }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

license/LICENSE.txt file.\n */\n\npackage kotlinx.dom\n\nimport org.w3c.dom.*\n\n/** Returns true if the element has the given CSS class style in its 'class' attribute */\n@SinceKotlin(\"1.4\")\nfun Element.hasClass(cssClass: String): Boolean = className.matches(\"\\"\\"(^|.*\\s+)$cssClass($|\\s+.*)\"\\"\".toRegex())\n\n/**\n * Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element\n *\n * @return true if at least one class has

been added\n */\n@SinceKotlin(\"1.4\")\nfun Element.addClass(vararg cssClasses: String): Boolean {\n   val missingClasses = cssClasses.filterNot { hasClass(it) }\n   if (missingClasses.isNotEmpty()) {\n   val presentClasses = className.trim()\n   className = buildString {\n   append(presentClasses)\n   if (!presentClasses.isEmpty()) {\n   append(\" \")\n   }\n   missingClasses.joinTo(this, \" \")\n   }\n   return true\n   }\n\n   return false\n}\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element\n *\n * @return true if at least one class has been removed\n */\n@SinceKotlin(\"1.4\")\nfun Element.removeClass(vararg cssClasses: String): Boolean {\n   if (cssClasses.any { hasClass(it) }) {\n   val toBeRemoved = cssClasses.toSet()\n   className = className.trim().split(\"\\\\s+\".toRegex()).filter { it !in toBeRemoved }.joinToString(\"

\")\n   return true\n   }\n\n   return false\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n/**\n * Converts the string into a regular expression [Regex] with the default options.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**\n * Converts the string into a regular expression [Regex] with the specified single [option].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)\n\n/**\n * Converts the string into a regular expression [Regex] with the specified set of [options].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(options: Set<RegexOption>): Regex = Regex(this,

options)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

/\n\npackage kotlinx.dom\n\nimport org.w3c.dom.\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\n */\n@SinceKotlin(\"1.4\")\npublic val Node.isText: Boolean\n   get() = nodeType == Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\n\n/**\n * Gets a value indicating whether this node is an [Element].\n */\n@SinceKotlin(\"1.4\")\npublic val Node.isElement: Boolean\n   get() = nodeType == Node.ELEMENT_NODE\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlinx.dom\n\nimport org.w3c.dom.*\n\n/** Removes all the children from this node. */\n@SinceKotlin(\"1.4\")\npublic

fun Node.clear() {\n   while (hasChildNodes()) {\n   removeChild(firstChild!!)\n   }\n}\n\n/**\n * Creates text node and append it to the element.\n *\n * @return this element\n */\n@SinceKotlin(\"1.4\")\nfun Element.appendText(text: String): Element {\n   appendChild(ownerDocument!!.createTextNode(text))\n   return this\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

*/\n\npackage org.w3c.dom\n\n@Deprecated(\"Use UnionMessagePortOrWindowProxy instead.\", ReplaceWith(\"UnionMessagePortOrWindowProxy\"))\ntypealias UnionMessagePortOrWindow = UnionMessagePortOrWindowProxy\n\n@Deprecated(\"Use `as` instead.\", ReplaceWith(\"`as`\"))\nvar HTMLLinkElement.as_\n   get() = `as`\n   set(value) {\n   `as` = value\n   }\n\n@Deprecated(\"Use `is` instead.\", ReplaceWith(\"`is`\"))\nvar

ElementCreationOptions.is_\n   get() = `is`\n   set(value) {\n   `is` = value\n   }","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage

org.khronos.webgl\n\nimport kotlin.js.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface WebGLContextAttributes {\n   var alpha: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var depth: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var stencil: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var antialias: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var premultipliedAlpha: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var preserveDrawingBuffer: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var preferLowPowerToHighPerformance: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var failIfMajorPerformanceCaveat: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun WebGLContextAttributes(alpha: Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha: Boolean? = true, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false, failIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {\n   val o = js(\"({})\")\n   o[\"alpha\"] = alpha\n   o[\"depth\"] = depth\n   o[\"stencil\"] = stencil\n   o[\"antialias\"] = antialias\n   o[\"premultipliedAlpha\"] = premultipliedAlpha\n   o[\"preserveDrawingBuffer\"] = preserveDrawingBuffer\n   o[\"preferLowPowerToHighPerformance\"] = preferLowPowerToHighPerformance\n   o[\"failIfMajorPerformanceCaveat\"] = failIfMajorPerformanceCaveat\n   return o\n}\n\npublic external abstract class WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer) to Kotlin\n */\npublic external abstract class WebGLBuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n */\npublic external abstract class WebGLFramebuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n */\npublic external abstract class WebGLProgram : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\n */\npublic external abstract class WebGLRenderbuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n */\npublic external abstract class WebGLShader : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n */\npublic external abstract class WebGLTexture : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\n */\npublic external abstract class WebGLUniformLocation\n\n/**\n * Exposes the JavaScript [WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\n */\npublic external abstract class WebGLActiveInfo {\n   open val size: Int\n   open val type: Int\n   open val name: String\n}\n\n/**\n * Exposes the JavaScript [WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to Kotlin\n */\npublic external abstract class WebGLShaderPrecisionFormat {\n   open val rangeMin: Int\n   open val rangeMax: Int\n   open val precision: Int\n}\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface WebGLRenderingContextBase {\n   val canvas: HTMLCanvasElement\n   val drawingBufferWidth: Int\n   val drawingBufferHeight: Int\n   fun getContextAttributes(): WebGLContextAttributes?\n   fun isContextLost(): Boolean\n   fun getSupportedExtensions(): Array<String>?\n   fun getExtension(name: String): dynamic\n   fun activeTexture(texture: Int)\n   fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n   fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n   fun bindBuffer(target: Int, buffer: WebGLBuffer?)\n   fun bindFramebuffer(target: Int,

framebuffer: WebGLFramebuffer?)\n   fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)\n
fun bindTexture(target: Int, texture: WebGLTexture?)\n   fun blendColor(red: Float, green: Float, blue: Float, alpha:
Float)\n   fun blendEquation(mode: Int)\n   fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n   fun
blendFunc(sfactor: Int, dfactor: Int)\n   fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha:
Int)\n   fun bufferData(target: Int, size: Int, usage: Int)\n   fun bufferData(target: Int, data: BufferDataSource?,
usage: Int)\n   fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)\n   fun
checkFramebufferStatus(target: Int): Int\n   fun clear(mask: Int)\n   fun clearColor(red: Float, green: Float, blue:
Float, alpha: Float)\n   fun clearDepth(depth: Float)\n   fun clearStencil(s: Int)\n   fun colorMask(red: Boolean,
green: Boolean, blue: Boolean, alpha: Boolean)\n   fun compileShader(shader: WebGLShader?)\n
    fun compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data:
ArrayBufferView)\n   fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int,
height: Int, format: Int, data: ArrayBufferView)\n   fun copyTexImage2D(target: Int, level: Int, internalformat: Int,
x: Int, y: Int, width: Int, height: Int, border: Int)\n   fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int,
yoffset: Int, x: Int, y: Int, width: Int, height: Int)\n   fun createBuffer(): WebGLBuffer?\n   fun createFramebuffer():
WebGLFramebuffer?\n   fun createProgram(): WebGLProgram?\n   fun createRenderbuffer():
WebGLRenderbuffer?\n   fun createShader(type: Int): WebGLShader?\n   fun createTexture(): WebGLTexture?\n
fun cullFace(mode: Int)\n   fun deleteBuffer(buffer: WebGLBuffer?)\n   fun deleteFramebuffer(framebuffer:
WebGLFramebuffer?)\n   fun deleteProgram(program: WebGLProgram?)\n   fun deleteRenderbuffer(renderbuffer:
 WebGLRenderbuffer?)\n   fun deleteShader(shader: WebGLShader?)\n   fun deleteTexture(texture:
WebGLTexture?)\n   fun depthFunc(func: Int)\n   fun depthMask(flag: Boolean)\n   fun depthRange(zNear: Float,
zFar: Float)\n   fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n   fun disable(cap: Int)\n
fun disableVertexAttribArray(index: Int)\n   fun drawArrays(mode: Int, first: Int, count: Int)\n   fun
drawElements(mode: Int, count: Int, type: Int, offset: Int)\n   fun enable(cap: Int)\n   fun
enableVertexAttribArray(index: Int)\n   fun finish()\n   fun flush()\n   fun framebufferRenderbuffer(target: Int,
attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n   fun framebufferTexture2D(target:
Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n   fun frontFace(mode: Int)\n   fun
generateMipmap(target: Int)\n   fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n
 fun getActiveUniform(program:
 WebGLProgram?, index: Int): WebGLActiveInfo?\n   fun getAttachedShaders(program: WebGLProgram?):
Array<WebGLShader>?\n   fun getAttribLocation(program: WebGLProgram?, name: String): Int\n   fun
getBufferParameter(target: Int, pname: Int): Any?\n   fun getParameter(pname: Int): Any?\n   fun getError(): Int\n
fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?\n   fun
getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n   fun getProgramInfoLog(program:
WebGLProgram?): String?\n   fun getRenderbufferParameter(target: Int, pname: Int): Any?\n   fun
getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n   fun getShaderPrecisionFormat(shadertype: Int,
precisiontype: Int): WebGLShaderPrecisionFormat?\n   fun getShaderInfoLog(shader: WebGLShader?): String?\n
fun getShaderSource(shader: WebGLShader?): String?\n   fun getTexParameter(target: Int, pname: Int): Any?\n
fun getUniform(program: WebGLProgram?,
 location: WebGLUniformLocation?): Any?\n   fun getUniformLocation(program: WebGLProgram?, name:
String): WebGLUniformLocation?\n   fun getVertexAttrib(index: Int, pname: Int): Any?\n   fun
getVertexAttribOffset(index: Int, pname: Int): Int\n   fun hint(target: Int, mode: Int)\n   fun isBuffer(buffer:
WebGLBuffer?): Boolean\n   fun isEnabled(cap: Int): Boolean\n   fun isFramebuffer(framebuffer:
WebGLFramebuffer?): Boolean\n   fun isProgram(program: WebGLProgram?): Boolean\n   fun
isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n   fun isShader(shader: WebGLShader?): Boolean\n
 fun isTexture(texture: WebGLTexture?): Boolean\n   fun lineWidth(width: Float)\n   fun linkProgram(program:
WebGLProgram?)\n   fun pixelStorei(pname: Int, param: Int)\n   fun polygonOffset(factor: Float, units: Float)\n
fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n   fun
renderbufferStorage(target: Int, internalformat: Int,

width: Int, height: Int)\n   fun sampleCoverage(value: Float, invert: Boolean)\n   fun scissor(x: Int, y: Int, width: Int, height: Int)\n   fun shaderSource(shader: WebGLShader?, source: String)\n   fun stencilFunc(func: Int, ref: Int, mask: Int)\n   fun stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int)\n   fun stencilMask(mask: Int)\n   fun stencilMaskSeparate(face: Int, mask: Int)\n   fun stencilOp(fail: Int, zfail: Int, zpass: Int)\n   fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n   fun texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n   fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source: TexImageSource?)\n   fun texParameterf(target: Int, pname: Int, param: Float)\n   fun texParameteri(target: Int, pname: Int, param: Int)\n   fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int,

width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n   fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, format: Int, type: Int, source: TexImageSource?)\n   fun uniform1f(location: WebGLUniformLocation?, x: Float)\n   fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n   fun uniform1fv(location: WebGLUniformLocation?, v: Array<Float>)\n   fun uniform1i(location: WebGLUniformLocation?, x: Int)\n   fun uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n   fun uniform1iv(location: WebGLUniformLocation?, v: Array<Int>)\n   fun uniform2f(location: WebGLUniformLocation?, x: Float, y: Float)\n   fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)\n   fun uniform2fv(location: WebGLUniformLocation?, v: Array<Float>)\n   fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n   fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)\n   fun uniform2iv(location: WebGLUniformLocation?,

v: Array<Int>)\n   fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float)\n   fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array)\n   fun uniform3fv(location: WebGLUniformLocation?, v: Array<Float>)\n   fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int)\n   fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n   fun uniform3iv(location: WebGLUniformLocation?, v: Array<Int>)\n   fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float)\n   fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n   fun uniform4fv(location: WebGLUniformLocation?, v: Array<Float>)\n   fun uniform4i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)\n   fun uniform4iv(location: WebGLUniformLocation?, v: Int32Array)\n   fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>)\n   fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n

    fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n   fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n   fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n   fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n   fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n   fun useProgram(program: WebGLProgram?)\n   fun validateProgram(program: WebGLProgram?)\n   fun vertexAttrib1f(index: Int, x: Float)\n   fun vertexAttrib1fv(index: Int, values: dynamic)\n   fun vertexAttrib2f(index: Int, x: Float, y: Float)\n   fun vertexAttrib2fv(index: Int, values: dynamic)\n   fun vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n   fun vertexAttrib3fv(index: Int, values: dynamic)\n   fun vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n

    fun vertexAttrib4fv(index: Int, values: dynamic)\n   fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int)\n   fun viewport(x: Int, y: Int, width: Int, height: Int)\n\n   companion object {\n   val DEPTH_BUFFER_BIT: Int\n   val STENCIL_BUFFER_BIT: Int\n   val COLOR_BUFFER_BIT: Int\n   val POINTS: Int\n   val LINES: Int\n   val LINE_LOOP: Int\n   val LINE_STRIP: Int\n   val TRIANGLES: Int\n   val TRIANGLE_STRIP: Int\n   val TRIANGLE_FAN: Int\n   val ZERO: Int\n   val ONE: Int\n   val SRC_COLOR: Int\n   val ONE_MINUS_SRC_COLOR: Int\n   val SRC_ALPHA: Int\n   val ONE_MINUS_SRC_ALPHA: Int\n   val DST_ALPHA: Int\n   val ONE_MINUS_DST_ALPHA: Int\n   val DST_COLOR: Int\n   val ONE_MINUS_DST_COLOR: Int\n   val SRC_ALPHA_SATURATE: Int\n   val FUNC_ADD: Int\n   val BLEND_EQUATION: Int\n   val

BLEND_EQUATION_RGB: Int\n

val BLEND_EQUATION_ALPHA: Int\n   val FUNC_SUBTRACT: Int\n   val
FUNC_REVERSE_SUBTRACT: Int\n   val BLEND_DST_RGB: Int\n   val BLEND_SRC_RGB: Int\n
val BLEND_DST_ALPHA: Int\n   val BLEND_SRC_ALPHA: Int\n   val CONSTANT_COLOR: Int\n
val ONE_MINUS_CONSTANT_COLOR: Int\n   val CONSTANT_ALPHA: Int\n   val
ONE_MINUS_CONSTANT_ALPHA: Int\n   val BLEND_COLOR: Int\n   val ARRAY_BUFFER: Int\n
val ELEMENT_ARRAY_BUFFER: Int\n   val ARRAY_BUFFER_BINDING: Int\n   val
ELEMENT_ARRAY_BUFFER_BINDING: Int\n   val STREAM_DRAW: Int\n   val STATIC_DRAW: Int\n
val DYNAMIC_DRAW: Int\n   val BUFFER_SIZE: Int\n   val BUFFER_USAGE: Int\n   val
CURRENT_VERTEX_ATTRIB: Int\n   val FRONT: Int\n   val BACK: Int\n   val FRONT_AND_BACK:
Int\n   val CULL_FACE: Int\n   val BLEND: Int\n   val DITHER: Int\n   val STENCIL_TEST: Int\n
val DEPTH_TEST: Int\n   val
SCISSOR_TEST: Int\n   val POLYGON_OFFSET_FILL: Int\n   val SAMPLE_ALPHA_TO_COVERAGE:
Int\n   val SAMPLE_COVERAGE: Int\n   val NO_ERROR: Int\n   val INVALID_ENUM: Int\n   val
INVALID_VALUE: Int\n   val INVALID_OPERATION: Int\n   val OUT_OF_MEMORY: Int\n   val CW:
Int\n   val CCW: Int\n   val LINE_WIDTH: Int\n   val ALIASED_POINT_SIZE_RANGE: Int\n   val
ALIASED_LINE_WIDTH_RANGE: Int\n   val CULL_FACE_MODE: Int\n   val FRONT_FACE: Int\n
val DEPTH_RANGE: Int\n   val DEPTH_WRITEMASK: Int\n   val DEPTH_CLEAR_VALUE: Int\n   val
DEPTH_FUNC: Int\n   val STENCIL_CLEAR_VALUE: Int\n   val STENCIL_FUNC: Int\n   val
STENCIL_FAIL: Int\n   val STENCIL_PASS_DEPTH_FAIL: Int\n   val STENCIL_PASS_DEPTH_PASS:
Int\n   val STENCIL_REF: Int\n   val STENCIL_VALUE_MASK: Int\n   val STENCIL_WRITEMASK:
Int\n   val STENCIL_BACK_FUNC: Int\n   val STENCIL_BACK_FAIL: Int\n

val STENCIL_BACK_PASS_DEPTH_FAIL: Int\n   val STENCIL_BACK_PASS_DEPTH_PASS: Int\n
val STENCIL_BACK_REF: Int\n   val STENCIL_BACK_VALUE_MASK: Int\n   val
STENCIL_BACK_WRITEMASK: Int\n   val VIEWPORT: Int\n   val SCISSOR_BOX: Int\n   val
COLOR_CLEAR_VALUE: Int\n   val COLOR_WRITEMASK: Int\n   val UNPACK_ALIGNMENT: Int\n
val PACK_ALIGNMENT: Int\n   val MAX_TEXTURE_SIZE: Int\n   val MAX_VIEWPORT_DIMS: Int\n
val SUBPIXEL_BITS: Int\n   val RED_BITS: Int\n   val GREEN_BITS: Int\n   val BLUE_BITS: Int\n
val ALPHA_BITS: Int\n   val DEPTH_BITS: Int\n   val STENCIL_BITS: Int\n   val
POLYGON_OFFSET_UNITS: Int\n   val POLYGON_OFFSET_FACTOR: Int\n   val
TEXTURE_BINDING_2D: Int\n   val SAMPLE_BUFFERS: Int\n   val SAMPLES: Int\n   val
SAMPLE_COVERAGE_VALUE: Int\n   val SAMPLE_COVERAGE_INVERT: Int\n   val
COMPRESSED_TEXTURE_FORMATS: Int\n   val DONT_CARE:
Int\n   val FASTEST: Int\n   val NICEST: Int\n   val GENERATE_MIPMAP_HINT: Int\n   val BYTE:
Int\n   val UNSIGNED_BYTE: Int\n   val SHORT: Int\n   val UNSIGNED_SHORT: Int\n   val INT:
Int\n   val UNSIGNED_INT: Int\n   val FLOAT: Int\n   val DEPTH_COMPONENT: Int\n   val
ALPHA: Int\n   val RGB: Int\n   val RGBA: Int\n   val LUMINANCE: Int\n   val
LUMINANCE_ALPHA: Int\n   val UNSIGNED_SHORT_4_4_4_4: Int\n   val
UNSIGNED_SHORT_5_5_5_1: Int\n   val UNSIGNED_SHORT_5_6_5: Int\n   val
FRAGMENT_SHADER: Int\n   val VERTEX_SHADER: Int\n   val MAX_VERTEX_ATTRIBS: Int\n
val MAX_VERTEX_UNIFORM_VECTORS: Int\n   val MAX_VARYING_VECTORS: Int\n   val
MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\n   val MAX_VERTEX_TEXTURE_IMAGE_UNITS:
Int\n   val MAX_TEXTURE_IMAGE_UNITS: Int\n   val MAX_FRAGMENT_UNIFORM_VECTORS: Int\n
val SHADER_TYPE: Int\n   val DELETE_STATUS:
Int\n   val LINK_STATUS: Int\n   val VALIDATE_STATUS: Int\n   val ATTACHED_SHADERS: Int\n
val ACTIVE_UNIFORMS: Int\n   val ACTIVE_ATTRIBUTES: Int\n   val
SHADING_LANGUAGE_VERSION: Int\n   val CURRENT_PROGRAM: Int\n   val NEVER: Int\n   val
LESS: Int\n   val EQUAL: Int\n   val LEQUAL: Int\n   val GREATER: Int\n   val NOTEQUAL: Int\n

val GEQUAL: Int\n   val ALWAYS: Int\n   val KEEP: Int\n   val REPLACE: Int\n   val INCR: Int\n val DECR: Int\n   val INVERT: Int\n   val INCR_WRAP: Int\n   val DECR_WRAP: Int\n   val VENDOR: Int\n   val RENDERER: Int\n   val VERSION: Int\n   val NEAREST: Int\n   val LINEAR: Int\n   val NEAREST_MIPMAP_NEAREST: Int\n   val LINEAR_MIPMAP_NEAREST: Int\n   val NEAREST_MIPMAP_LINEAR: Int\n   val LINEAR_MIPMAP_LINEAR: Int\n   val TEXTURE_MAG_FILTER: Int\n   val TEXTURE_MIN_FILTER: Int\n val TEXTURE_WRAP_S: Int\n   val TEXTURE_WRAP_T: Int\n   val TEXTURE_2D: Int\n   val TEXTURE: Int\n   val TEXTURE_CUBE_MAP: Int\n   val TEXTURE_BINDING_CUBE_MAP: Int\n val TEXTURE_CUBE_MAP_POSITIVE_X: Int\n   val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\n   val TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n   val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n   val TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n   val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n   val MAX_CUBE_MAP_TEXTURE_SIZE: Int\n   val TEXTURE0: Int\n   val TEXTURE1: Int\n   val TEXTURE2: Int\n   val TEXTURE3: Int\n   val TEXTURE4: Int\n   val TEXTURE5: Int\n   val TEXTURE6: Int\n   val TEXTURE7: Int\n   val TEXTURE8: Int\n   val TEXTURE9: Int\n   val TEXTURE10: Int\n   val TEXTURE11: Int\n   val TEXTURE12: Int\n   val TEXTURE13: Int\n   val TEXTURE14: Int\n   val TEXTURE15: Int\n   val TEXTURE16: Int\n   val TEXTURE17: Int\n   val TEXTURE18: Int\n   val TEXTURE19: Int\n   val TEXTURE20: Int\n   val TEXTURE21: Int\n   val TEXTURE22: Int\n   val TEXTURE23: Int\n   val TEXTURE24: Int\n   val TEXTURE25: Int\n   val TEXTURE26: Int\n   val TEXTURE27: Int\n   val TEXTURE28: Int\n   val TEXTURE29: Int\n   val TEXTURE30: Int\n   val TEXTURE31: Int\n   val ACTIVE_TEXTURE: Int\n   val REPEAT: Int\n   val CLAMP_TO_EDGE: Int\n   val MIRRORED_REPEAT: Int\n   val FLOAT_VEC2: Int\n   val FLOAT_VEC3: Int\n   val FLOAT_VEC4: Int\n   val INT_VEC2: Int\n   val INT_VEC3: Int\n   val INT_VEC4: Int\n   val BOOL: Int\n   val BOOL_VEC2: Int\n   val BOOL_VEC3: Int\n val BOOL_VEC4: Int\n   val FLOAT_MAT2: Int\n   val FLOAT_MAT3: Int\n   val FLOAT_MAT4: Int\n val SAMPLER_2D: Int\n   val SAMPLER_CUBE: Int\n   val VERTEX_ATTRIB_ARRAY_ENABLED: Int\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\n   val VERTEX_ATTRIB_ARRAY_STRIDE: Int\n   val VERTEX_ATTRIB_ARRAY_TYPE: Int\n   val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n   val VERTEX_ATTRIB_ARRAY_POINTER: Int\n   val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\n   val IMPLEMENTATION_COLOR_READ_FORMAT: Int\n   val COMPILE_STATUS: Int\n   val LOW_FLOAT: Int\n   val MEDIUM_FLOAT: Int\n   val HIGH_FLOAT: Int\n   val LOW_INT: Int\n val MEDIUM_INT: Int\n   val HIGH_INT: Int\n   val FRAMEBUFFER: Int\n   val RENDERBUFFER: Int\n   val RGBA4: Int\n   val RGB5_A1: Int\n   val RGB565: Int\n   val DEPTH_COMPONENT16: Int\n   val STENCIL_INDEX: Int\n   val STENCIL_INDEX8: Int\n   val DEPTH_STENCIL: Int\n   val RENDERBUFFER_WIDTH: Int\n   val RENDERBUFFER_HEIGHT: Int\n   val RENDERBUFFER_INTERNAL_FORMAT: Int\n   val RENDERBUFFER_RED_SIZE: Int\n   val RENDERBUFFER_GREEN_SIZE: Int\n   val RENDERBUFFER_BLUE_SIZE: Int\n   val RENDERBUFFER_ALPHA_SIZE: Int\n   val RENDERBUFFER_DEPTH_SIZE: Int\n   val RENDERBUFFER_STENCIL_SIZE: Int\n   val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n   val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n   val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n   val COLOR_ATTACHMENT0: Int\n   val DEPTH_ATTACHMENT: Int\n   val STENCIL_ATTACHMENT: Int\n   val DEPTH_STENCIL_ATTACHMENT: Int\n   val NONE: Int\n   val FRAMEBUFFER_COMPLETE: Int\n val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n   val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n   val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n   val FRAMEBUFFER_UNSUPPORTED: Int\n

val FRAMEBUFFER_BINDING: Int\n   val RENDERBUFFER_BINDING: Int\n   val
MAX_RENDERBUFFER_SIZE: Int\n   val INVALID_FRAMEBUFFER_OPERATION:
 Int\n   val UNPACK_FLIP_Y_WEBGL: Int\n   val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n
val CONTEXT_LOST_WEBGL: Int\n   val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n
val BROWSER_DEFAULT_WEBGL: Int\n   }\n}\n\n/**\n * Exposes the JavaScript
[WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\n
*/\npublic external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\n
 companion object {\n   val DEPTH_BUFFER_BIT: Int\n   val STENCIL_BUFFER_BIT: Int\n   val
COLOR_BUFFER_BIT: Int\n   val POINTS: Int\n   val LINES: Int\n   val LINE_LOOP: Int\n   val
LINE_STRIP: Int\n   val TRIANGLES: Int\n   val TRIANGLE_STRIP: Int\n   val TRIANGLE_FAN:
Int\n   val ZERO: Int\n   val ONE: Int\n   val SRC_COLOR: Int\n   val ONE_MINUS_SRC_COLOR:
Int\n   val SRC_ALPHA: Int\n   val ONE_MINUS_SRC_ALPHA:
 Int\n   val DST_ALPHA: Int\n   val ONE_MINUS_DST_ALPHA: Int\n   val DST_COLOR: Int\n   val
ONE_MINUS_DST_COLOR: Int\n   val SRC_ALPHA_SATURATE: Int\n   val FUNC_ADD: Int\n   val
BLEND_EQUATION: Int\n   val BLEND_EQUATION_RGB: Int\n   val BLEND_EQUATION_ALPHA:
Int\n   val FUNC_SUBTRACT: Int\n   val FUNC_REVERSE_SUBTRACT: Int\n   val
BLEND_DST_RGB: Int\n   val BLEND_SRC_RGB: Int\n   val BLEND_DST_ALPHA: Int\n   val
BLEND_SRC_ALPHA: Int\n   val CONSTANT_COLOR: Int\n   val ONE_MINUS_CONSTANT_COLOR:
Int\n   val CONSTANT_ALPHA: Int\n   val ONE_MINUS_CONSTANT_ALPHA: Int\n   val
BLEND_COLOR: Int\n   val ARRAY_BUFFER: Int\n   val ELEMENT_ARRAY_BUFFER: Int\n   val
ARRAY_BUFFER_BINDING: Int\n   val ELEMENT_ARRAY_BUFFER_BINDING: Int\n   val
STREAM_DRAW: Int\n   val STATIC_DRAW: Int\n   val DYNAMIC_DRAW: Int\n   val
BUFFER_SIZE: Int\n   val BUFFER_USAGE:
 Int\n   val CURRENT_VERTEX_ATTRIB: Int\n   val FRONT: Int\n   val BACK: Int\n   val
FRONT_AND_BACK: Int\n   val CULL_FACE: Int\n   val BLEND: Int\n   val DITHER: Int\n   val
STENCIL_TEST: Int\n   val DEPTH_TEST: Int\n   val SCISSOR_TEST: Int\n   val
POLYGON_OFFSET_FILL: Int\n   val SAMPLE_ALPHA_TO_COVERAGE: Int\n   val
SAMPLE_COVERAGE: Int\n   val NO_ERROR: Int\n   val INVALID_ENUM: Int\n   val
INVALID_VALUE: Int\n   val INVALID_OPERATION: Int\n   val OUT_OF_MEMORY: Int\n   val CW:
Int\n   val CCW: Int\n   val LINE_WIDTH: Int\n   val ALIASED_POINT_SIZE_RANGE: Int\n   val
ALIASED_LINE_WIDTH_RANGE: Int\n   val CULL_FACE_MODE: Int\n   val FRONT_FACE: Int\n
val DEPTH_RANGE: Int\n   val DEPTH_WRITEMASK: Int\n   val DEPTH_CLEAR_VALUE: Int\n   val
DEPTH_FUNC: Int\n   val STENCIL_CLEAR_VALUE: Int\n   val STENCIL_FUNC: Int\n   val
STENCIL_FAIL:
 Int\n   val STENCIL_PASS_DEPTH_FAIL: Int\n   val STENCIL_PASS_DEPTH_PASS: Int\n   val
STENCIL_REF: Int\n   val STENCIL_VALUE_MASK: Int\n   val STENCIL_WRITEMASK: Int\n   val
STENCIL_BACK_FUNC: Int\n   val STENCIL_BACK_FAIL: Int\n   val
STENCIL_BACK_PASS_DEPTH_FAIL: Int\n   val STENCIL_BACK_PASS_DEPTH_PASS: Int\n   val
STENCIL_BACK_REF: Int\n   val STENCIL_BACK_VALUE_MASK: Int\n   val
STENCIL_BACK_WRITEMASK: Int\n   val VIEWPORT: Int\n   val SCISSOR_BOX: Int\n   val
COLOR_CLEAR_VALUE: Int\n   val COLOR_WRITEMASK: Int\n   val UNPACK_ALIGNMENT: Int\n
 val PACK_ALIGNMENT: Int\n   val MAX_TEXTURE_SIZE: Int\n   val MAX_VIEWPORT_DIMS: Int\n
  val SUBPIXEL_BITS: Int\n   val RED_BITS: Int\n   val GREEN_BITS: Int\n   val BLUE_BITS: Int\n
  val ALPHA_BITS: Int\n   val DEPTH_BITS: Int\n   val STENCIL_BITS: Int\n   val
POLYGON_OFFSET_UNITS: Int\n
    val POLYGON_OFFSET_FACTOR: Int\n   val TEXTURE_BINDING_2D: Int\n   val
SAMPLE_BUFFERS: Int\n   val SAMPLES: Int\n   val SAMPLE_COVERAGE_VALUE: Int\n   val
SAMPLE_COVERAGE_INVERT: Int\n   val COMPRESSED_TEXTURE_FORMATS: Int\n   val

DONT_CARE: Int\n   val FASTEST: Int\n   val NICEST: Int\n   val GENERATE_MIPMAP_HINT: Int\n   val BYTE: Int\n   val UNSIGNED_BYTE: Int\n   val SHORT: Int\n   val UNSIGNED_SHORT: Int\n   val INT: Int\n   val UNSIGNED_INT: Int\n   val FLOAT: Int\n   val DEPTH_COMPONENT: Int\n val ALPHA: Int\n   val RGB: Int\n   val RGBA: Int\n   val LUMINANCE: Int\n   val LUMINANCE_ALPHA: Int\n   val UNSIGNED_SHORT_4_4_4_4: Int\n   val UNSIGNED_SHORT_5_5_5_1: Int\n   val UNSIGNED_SHORT_5_6_5: Int\n   val FRAGMENT_SHADER: Int\n   val VERTEX_SHADER: Int\n   val MAX_VERTEX_ATTRIBS: Int\n val MAX_VERTEX_UNIFORM_VECTORS: Int\n
      val MAX_VARYING_VECTORS: Int\n   val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\n val MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\n   val MAX_TEXTURE_IMAGE_UNITS: Int\n   val MAX_FRAGMENT_UNIFORM_VECTORS: Int\n   val SHADER_TYPE: Int\n   val DELETE_STATUS: Int\n   val LINK_STATUS: Int\n   val VALIDATE_STATUS: Int\n   val ATTACHED_SHADERS: Int\n   val ACTIVE_UNIFORMS: Int\n   val ACTIVE_ATTRIBUTES: Int\n   val SHADING_LANGUAGE_VERSION: Int\n   val CURRENT_PROGRAM: Int\n   val NEVER: Int\n   val LESS: Int\n   val EQUAL: Int\n   val LEQUAL: Int\n   val GREATER: Int\n   val NOTEQUAL: Int\n   val GEQUAL: Int\n   val ALWAYS: Int\n   val KEEP: Int\n   val REPLACE: Int\n   val INCR: Int\n   val DECR: Int\n   val INVERT: Int\n   val INCR_WRAP: Int\n   val DECR_WRAP: Int\n   val VENDOR: Int\n   val RENDERER: Int\n   val VERSION: Int\n   val NEAREST: Int\n   val LINEAR: Int\n   val NEAREST_MIPMAP_NEAREST: Int\n   val LINEAR_MIPMAP_NEAREST: Int\n   val NEAREST_MIPMAP_LINEAR: Int\n   val LINEAR_MIPMAP_LINEAR: Int\n   val TEXTURE_MAG_FILTER: Int\n   val TEXTURE_MIN_FILTER: Int\n   val TEXTURE_WRAP_S: Int\n   val TEXTURE_WRAP_T: Int\n   val TEXTURE_2D: Int\n val TEXTURE: Int\n   val TEXTURE_CUBE_MAP: Int\n   val TEXTURE_BINDING_CUBE_MAP: Int\n   val TEXTURE_CUBE_MAP_POSITIVE_X: Int\n   val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\n val TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n   val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n   val TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n   val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n   val MAX_CUBE_MAP_TEXTURE_SIZE: Int\n   val TEXTURE0: Int\n   val TEXTURE1: Int\n   val TEXTURE2: Int\n   val TEXTURE3: Int\n   val TEXTURE4: Int\n   val TEXTURE5: Int\n   val TEXTURE6: Int\n   val TEXTURE7:
 Int\n   val TEXTURE8: Int\n   val TEXTURE9: Int\n   val TEXTURE10: Int\n   val TEXTURE11: Int\n   val TEXTURE12: Int\n   val TEXTURE13: Int\n   val TEXTURE14: Int\n   val TEXTURE15: Int\n   val TEXTURE16: Int\n   val TEXTURE17: Int\n   val TEXTURE18: Int\n   val TEXTURE19: Int\n   val TEXTURE20: Int\n   val TEXTURE21: Int\n   val TEXTURE22: Int\n   val TEXTURE23: Int\n   val TEXTURE24: Int\n   val TEXTURE25: Int\n   val TEXTURE26: Int\n   val TEXTURE27: Int\n   val TEXTURE28: Int\n   val TEXTURE29: Int\n   val TEXTURE30: Int\n   val TEXTURE31: Int\n   val ACTIVE_TEXTURE: Int\n   val REPEAT: Int\n   val CLAMP_TO_EDGE: Int\n   val MIRRORED_REPEAT: Int\n   val FLOAT_VEC2: Int\n   val FLOAT_VEC3: Int\n   val FLOAT_VEC4: Int\n   val INT_VEC2: Int\n   val INT_VEC3: Int\n   val INT_VEC4: Int\n   val BOOL: Int\n val BOOL_VEC2: Int\n   val BOOL_VEC3: Int\n   val BOOL_VEC4: Int\n   val FLOAT_MAT2: Int\n val FLOAT_MAT3: Int\n   val FLOAT_MAT4: Int\n   val SAMPLER_2D: Int\n   val SAMPLER_CUBE: Int\n   val VERTEX_ATTRIB_ARRAY_ENABLED: Int\n   val VERTEX_ATTRIB_ARRAY_SIZE: Int\n   val VERTEX_ATTRIB_ARRAY_STRIDE: Int\n   val VERTEX_ATTRIB_ARRAY_TYPE: Int\n   val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n   val VERTEX_ATTRIB_ARRAY_POINTER: Int\n   val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\n   val IMPLEMENTATION_COLOR_READ_TYPE: Int\n   val IMPLEMENTATION_COLOR_READ_FORMAT: Int\n   val COMPILE_STATUS: Int\n   val LOW_FLOAT: Int\n   val MEDIUM_FLOAT: Int\n   val HIGH_FLOAT: Int\n   val LOW_INT: Int\n val MEDIUM_INT: Int\n   val HIGH_INT: Int\n   val FRAMEBUFFER: Int\n   val RENDERBUFFER:

Int\n   val RGBA4: Int\n   val RGB5_A1: Int\n   val RGB565: Int\n   val
DEPTH_COMPONENT16: Int\n   val STENCIL_INDEX: Int\n   val STENCIL_INDEX8: Int\n   val
DEPTH_STENCIL: Int\n   val RENDERBUFFER_WIDTH: Int\n   val RENDERBUFFER_HEIGHT: Int\n
 val RENDERBUFFER_INTERNAL_FORMAT: Int\n   val RENDERBUFFER_RED_SIZE: Int\n   val
RENDERBUFFER_GREEN_SIZE: Int\n   val RENDERBUFFER_BLUE_SIZE: Int\n   val
RENDERBUFFER_ALPHA_SIZE: Int\n   val RENDERBUFFER_DEPTH_SIZE: Int\n   val
RENDERBUFFER_STENCIL_SIZE: Int\n   val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n
val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n   val
FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n   val
FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n   val COLOR_ATTACHMENT0:
Int\n   val DEPTH_ATTACHMENT: Int\n   val STENCIL_ATTACHMENT: Int\n   val
DEPTH_STENCIL_ATTACHMENT: Int\n   val NONE: Int\n   val FRAMEBUFFER_COMPLETE: Int\n
val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n   val
FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT:
 Int\n   val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n   val
FRAMEBUFFER_UNSUPPORTED: Int\n   val FRAMEBUFFER_BINDING: Int\n   val
RENDERBUFFER_BINDING: Int\n   val MAX_RENDERBUFFER_SIZE: Int\n   val
INVALID_FRAMEBUFFER_OPERATION: Int\n   val UNPACK_FLIP_Y_WEBGL: Int\n   val
UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n   val CONTEXT_LOST_WEBGL: Int\n   val
UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n   val BROWSER_DEFAULT_WEBGL: Int\n
}\n}\n\n/**\n * Exposes the JavaScript
[WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin\n
*/\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =
definedExternally) : Event {\n   open val statusMessage: String\n\n   companion object {\n   val NONE: Short\n
    val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n
}\n}\n\npublic external
 interface WebGLContextEventInit : EventInit {\n   var statusMessage: String? /* = \"\" */\n   get() =
definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
WebGLContextEventInit(statusMessage: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): WebGLContextEventInit {\n   val o = js(\"({})\")\n   o[\"statusMessage\"] =
statusMessage\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin\n */\npublic external open
class ArrayBuffer(length: Int) : BufferDataSource {\n   open val byteLength: Int\n   fun slice(begin: Int, end: Int =
definedExternally): ArrayBuffer\n\n   companion object {\n   fun isView(value: Any?): Boolean\n
}\n}\n\n/**\n
 * Exposes the JavaScript [ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to
Kotlin\n */\npublic external interface ArrayBufferView : BufferDataSource {\n   val buffer: ArrayBuffer\n   val
byteOffset: Int\n   val byteLength: Int\n}\n\n/**\n * Exposes the JavaScript
[Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin\n */\npublic external open class
Int8Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Int8Array)\n   constructor(array:
Array<Byte>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int =
definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n
override val byteLength: Int\n   fun set(array: Int8Array, offset: Int = definedExternally)\n   fun set(array:
Array<Byte>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Int8Array\n\n   companion
object {\n

val BYTES_PER_ELEMENT: Int\n   }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.get(index: Int):
Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.set(index: Int,
value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin\n */\npublic external open class
Uint8Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Uint8Array)\n
constructor(array: Array<Byte>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset:
Int\n   override val byteLength: Int\n   fun set(array: Uint8Array, offset: Int = definedExternally)\n   fun
 set(array: Array<Byte>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Uint8Array\n\n
companion object {\n   val BYTES_PER_ELEMENT: Int\n
}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.get(index: Int):
Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.set(index: Int,
value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin\n */\npublic
external open class Uint8ClampedArray : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array:
Uint8ClampedArray)\n   constructor(array: Array<Byte>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int =
definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val
 buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array:
Uint8ClampedArray, offset: Int = definedExternally)\n   fun set(array: Array<Byte>, offset: Int =
definedExternally)\n   fun subarray(start: Int, end: Int): Uint8ClampedArray\n\n   companion object {\n   val
BYTES_PER_ELEMENT: Int\n   }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\n */\npublic external open class
Int16Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Int16Array)\n
constructor(array:
 Array<Short>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int =
definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n
override val byteLength: Int\n   fun set(array: Int16Array, offset: Int = definedExternally)\n   fun set(array:
Array<Short>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Int16Array\n\n   companion
object {\n   val BYTES_PER_ELEMENT: Int\n   }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.get(index: Int):
Short = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin\n */\npublic
 external open class Uint16Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array:
Uint16Array)\n   constructor(array: Array<Short>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int =
definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n
override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array: Uint16Array, offset: Int =
definedExternally)\n   fun set(array: Array<Short>, offset: Int = definedExternally)\n   fun subarray(start: Int, end:
Int): Uint16Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n

}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.get(index: Int): Short = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.set(index: Int, value: Short) { asDynamic()[index]

= value }\n\n/**\n * Exposes the JavaScript [Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n */\npublic external open class Int32Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Int32Array)\n   constructor(array: Array<Int>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array: Int32Array, offset: Int = definedExternally)\n   fun set(array: Array<Int>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Int32Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n   }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.set(index: Int, value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n */\npublic external open class Uint32Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Uint32Array)\n   constructor(array: Array<Int>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array: Uint32Array, offset: Int = definedExternally)\n   fun set(array: Array<Int>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Uint32Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n   }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic

inline operator fun Uint32Array.get(index: Int): Int = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.set(index: Int, value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n */\npublic external open class Float32Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Float32Array)\n   constructor(array: Array<Float>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array: Float32Array, offset: Int = definedExternally)\n   fun set(array: Array<Float>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Float32Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.get(index: Int): Float = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.set(index: Int, value: Float) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n */\npublic external open class Float64Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Float64Array)\n   constructor(array: Array<Double>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array:

Float64Array, offset: Int = definedExternally)\n   fun set(array: Array<Double>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Float64Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n

}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int): Double = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.set(index: Int, value: Double) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n */\npublic external open class DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) : ArrayBufferView {\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun getInt8(byteOffset: Int): Byte\n   fun getUint8(byteOffset: Int): Byte\n   fun getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n   fun getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n   fun getInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n   fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n   fun getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\n   fun getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double\n   fun setInt8(byteOffset: Int, value: Byte)\n   fun setUint8(byteOffset: Int, value: Byte)\n   fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n   fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n   fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n   fun setUint32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n   fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean = definedExternally)\n   fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean = definedExternally)\n}\n\npublic external interface BufferDataSource\n\npublic external interface TexImageSource","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.clipboard\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface ClipboardEventInit : EventInit {\n   var clipboardData: DataTransfer? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardEventInit(clipboardData: DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ClipboardEventInit {\n   val o = js(\"({})\")\n   o[\"clipboardData\"] = clipboardData\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n */\npublic external open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\n   open val clipboardData: DataTransfer?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to Kotlin\n */\npublic external abstract class Clipboard : EventTarget {\n   fun read(): Promise<DataTransfer>\n   fun readText(): Promise<String>\n   fun write(data: DataTransfer): Promise<Unit>\n   fun writeText(data: String): Promise<Unit>\n}\n\npublic external interface ClipboardPermissionDescriptor {\n   var allowWithoutGesture: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n   val o = js(\"({})\")\n   o[\"allowWithoutGesture\"] = allowWithoutGesture\n   return o\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the

Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat
 for details\n\npackage org.w3c.dom.css\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\npublic external abstract class MediaList : ItemArrayLike<String> {\n   open var mediaText: String\n   fun appendMedium(medium: String)\n   fun deleteMedium(medium: String)\n   override fun item(index: Int): String?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n */\npublic external abstract class StyleSheet {\n   open val type: String\n   open val href: String?\n   open val ownerNode: UnionElementOrProcessingInstruction?\n   open val parentStyleSheet: StyleSheet?\n   open val title: String?\n   open val media: MediaList\n   open var disabled: Boolean\n}\n\n/**\n * Exposes the JavaScript [CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet)
 to Kotlin\n */\npublic external abstract class CSSStyleSheet : StyleSheet {\n   open val ownerRule: CSSRule?\n   open val cssRules: CSSRuleList\n   fun insertRule(rule: String, index: Int): Int\n   fun deleteRule(index: Int)\n}\n\n/**\n * Exposes the JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n */\npublic external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n   override fun item(index: Int): StyleSheet?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n */\npublic external interface LinkStyle {\n   val sheet: StyleSheet?\n   get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList)
 to Kotlin\n */\npublic external abstract class CSSRuleList : ItemArrayLike<CSSRule> {\n   override fun item(index: Int): CSSRule?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n */\npublic external abstract class CSSRule {\n   open val type: Short\n   open var cssText: String\n   open val parentRule: CSSRule?\n   open val parentStyleSheet: CSSStyleSheet?\n\n   companion object {\n   val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule)
 to Kotlin\n */\npublic external abstract class CSSStyleRule : CSSRule {\n   open var selectorText: String\n   open val style: CSSStyleDeclaration\n\n   companion object {\n   val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\npublic external abstract class CSSImportRule : CSSRule {\n   open val href: String\n   open val media: MediaList\n   open val styleSheet: CSSStyleSheet\n\n   companion object {\n   val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule)
 to Kotlin\n */\npublic external abstract class CSSGroupingRule : CSSRule {\n   open val cssRules: CSSRuleList\n   fun insertRule(rule: String, index: Int): Int\n   fun deleteRule(index: Int)\n\n   companion object {\n   val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val

MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\n */\npublic external abstract class CSSMediaRule : CSSGroupingRule {\n   open val media: MediaList\n\n   companion object {\n   val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule) to Kotlin\n */\npublic external abstract class CSSPageRule : CSSGroupingRule {\n   open var selectorText: String\n   open val style: CSSStyleDeclaration\n\n   companion object {\n   val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\npublic external abstract class CSSMarginRule : CSSRule {\n   open val name: String\n   open val style: CSSStyleDeclaration\n\n   companion object {\n   val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule) to Kotlin\n */\npublic external abstract class CSSNamespaceRule : CSSRule {\n   open val namespaceURI: String\n   open val prefix: String\n\n   companion object {\n   val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin\n */\npublic external abstract class CSSStyleDeclaration : ItemArrayLike<String> {\n   open var cssText: String\n   open val parentRule: CSSRule?\n   open var cssFloat: String\n   open var alignContent: String\n   open var alignItems: String\n   open var alignSelf: String\n   open var animation: String\n   open var animationDelay: String\n   open var animationDirection: String\n   open var animationDuration: String\n   open var animationFillMode: String\n   open var animationIterationCount: String\n   open var animationName: String\n   open var animationPlayState: String\n   open var animationTimingFunction: String\n   open var backfaceVisibility: String\n   open var background: String\n   open var backgroundAttachment: String\n   open var backgroundClip: String\n   open var backgroundColor: String\n   open var backgroundImage: String\n   open var backgroundOrigin: String\n   open var backgroundPosition: String\n   open var backgroundRepeat: String\n   open var backgroundSize: String\n   open var border: String\n   open var borderBottom: String\n   open var borderBottomColor: String\n   open var borderBottomLeftRadius: String\n   open var borderBottomRightRadius: String\n   open var borderBottomStyle: String\n   open var borderBottomWidth: String\n   open var borderCollapse: String\n   open var borderColor: String\n   open var borderImage: String\n   open var borderImageOutset: String\n   open var borderImageRepeat: String\n   open var borderImageSlice: String\n   open var borderImageSource: String\n   open var borderImageWidth: String\n   open var borderLeft: String\n   open var borderLeftColor: String\n   open var borderLeftStyle: String\n   open var borderLeftWidth: String\n   open var borderRadius: String\n   open var borderRight: String\n   open var borderRightColor: String\n   open var borderRightStyle: String\n   open var borderRightWidth: String\n   open var borderSpacing: String\n   open var borderStyle: String\n   open var borderTop: String\n   open var borderTopColor: String\n   open var borderTopLeftRadius: String\n   open var borderTopRightRadius: String\n   open var borderTopStyle: String\n   open var borderTopWidth: String\n   open var borderWidth: String\n   open var bottom: String\n   open var boxDecorationBreak: String\n   open var boxShadow: String\n   open var boxSizing: String\n   open var breakAfter: String\n   open var breakBefore: String\n   open var

breakInside: String\n   open var captionSide: String\n   open var clear: String\n   open var clip: String\n   open var color: String\n   open var columnCount: String\n   open var columnFill: String\n   open var columnGap: String\n   open var columnRule: String\n   open var columnRuleColor: String\n   open var columnRuleStyle: String\n   open var columnRuleWidth: String\n   open var columnSpan: String\n   open var columnWidth: String\n   open var columns: String\n   open var content: String\n   open var counterIncrement: String\n   open var counterReset: String\n   open var cursor: String\n   open var direction: String\n   open var display: String\n   open var emptyCells: String\n   open var filter: String\n   open var flex: String\n   open var flexBasis: String\n   open var flexDirection: String\n   open var flexFlow: String\n   open var flexGrow: String\n   open var flexShrink: String\n   open var flexWrap: String\n   open var font: String\n   open var fontFamily: String\n   open var fontFeatureSettings: String\n   open var fontKerning: String\n   open var fontLanguageOverride: String\n   open var fontSize: String\n   open var fontSizeAdjust: String\n   open var fontStretch: String\n   open var fontStyle: String\n   open var fontSynthesis: String\n   open var fontVariant: String\n   open var fontVariantAlternates: String\n   open var fontVariantCaps: String\n   open var fontVariantEastAsian: String\n   open var fontVariantLigatures: String\n   open var fontVariantNumeric: String\n   open var fontVariantPosition: String\n   open var fontWeight: String\n   open var hangingPunctuation: String\n   open var height: String\n   open var hyphens: String\n   open var imageOrientation: String\n   open var imageRendering: String\n   open var imageResolution: String\n   open var imeMode: String\n   open var justifyContent: String\n   open var left: String\n   open var letterSpacing: String\n   open var lineBreak: String\n   open var lineHeight: String\n   open var listStyle: String\n   open var listStyleImage: String\n   open var listStylePosition: String\n   open var listStyleType: String\n   open var margin: String\n   open var marginBottom: String\n   open var marginLeft: String\n   open var marginRight: String\n   open var marginTop: String\n   open var mark: String\n   open var markAfter: String\n   open var markBefore: String\n   open var marks: String\n   open var marqueeDirection: String\n   open var marqueePlayCount: String\n   open var marqueeSpeed: String\n   open var marqueeStyle: String\n   open var mask: String\n   open var maskType: String\n   open var maxHeight: String\n   open var maxWidth: String\n   open var minHeight: String\n   open var minWidth: String\n   open var navDown: String\n   open var navIndex: String\n   open var navLeft: String\n   open var navRight: String\n   open var navUp: String\n   open var objectFit: String\n   open var objectPosition: String\n   open var opacity: String\n   open var order: String\n   open var orphans: String\n   open var outline: String\n   open var outlineColor: String\n   open var outlineOffset: String\n   open var outlineStyle: String\n   open var outlineWidth: String\n   open var overflowWrap: String\n   open var overflowX: String\n   open var overflowY: String\n   open var padding: String\n   open var paddingBottom: String\n   open var paddingLeft: String\n   open var paddingRight: String\n   open var paddingTop: String\n   open var pageBreakAfter: String\n   open var pageBreakBefore: String\n   open var pageBreakInside: String\n   open var perspective: String\n   open var perspectiveOrigin: String\n   open var phonemes: String\n   open var position: String\n   open var quotes: String\n   open var resize: String\n   open var rest: String\n   open var restAfter: String\n   open var restBefore: String\n   open var right: String\n   open var tabSize: String\n   open var tableLayout: String\n   open var textAlign: String\n   open var textAlignLast: String\n   open var textCombineUpright: String\n   open var textDecoration: String\n   open var textDecorationColor: String\n   open var textDecorationLine: String\n   open var textDecorationStyle: String\n   open var textIndent: String\n   open var textJustify: String\n   open var textOrientation: String\n   open var textOverflow: String\n   open var textShadow: String\n   open var textTransform: String\n   open var textUnderlinePosition: String\n   open var top: String\n   open var transform: String\n   open var transformOrigin: String\n   open var transformStyle: String\n   open var transition: String\n   open var transitionDelay: String\n   open var transitionDuration: String\n   open var transitionProperty: String\n   open var transitionTimingFunction: String\n   open var unicodeBidi: String\n   open var verticalAlign: String\n   open var visibility: String\n   open var voiceBalance: String\n   open var voiceDuration: String\n   open var voicePitch: String\n   open var voicePitchRange: String\n   open var voiceRate: String\n   open var voiceStress: String\n   open var voiceVolume: String\n   open var whiteSpace: String\n   open var widows: String\n   open var width: String\n   open var

wordBreak: String\n   open var wordSpacing: String\n   open var wordWrap: String\n   open var writingMode: String\n   open var zIndex: String\n   open var _dashed_attribute: String\n   open var _camel_cased_attribute: String\n   open var _webkit_cased_attribute: String\n   fun getPropertyValue(property: String): String\n   fun getPropertyPriority(property: String): String\n   fun setProperty(property: String, value: String, priority: String = definedExternally)\n   fun setPropertyValue(property: String, value: String)\n   fun setPropertyPriority(property: String, priority: String)\n   fun removeProperty(property: String): String\n   override fun item(index: Int): String\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic external interface ElementCSSInlineStyle {\n   val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript [CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n */\npublic external abstract class CSS {\n   companion object {\n   fun escape(ident: String): String\n   }\n}\n\npublic external interface UnionElementOrProcessingInstruction","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.encryptedmedia\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript [MediaKeySystemConfiguration](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemConfiguration) to Kotlin\n */\npublic external interface MediaKeySystemConfiguration {\n   var label: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var initDataTypes: Array<String>? /* = arrayOf() */\n   get() = definedExternally\n   set(value) = definedExternally\n   var audioCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n   get() = definedExternally\n   set(value) = definedExternally\n   var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n   get() = definedExternally\n   set(value) = definedExternally\n   var distinctiveIdentifier: MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */\n   get() = definedExternally\n   set(value) = definedExternally\n   var persistentState: MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */\n   get() = definedExternally\n   set(value) = definedExternally\n   var sessionTypes: Array<String>?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaKeySystemConfiguration(label: String? = \"\", initDataTypes: Array<String>? = arrayOf(), audioCapabilities: Array<MediaKeySystemMediaCapability>? = arrayOf(), videoCapabilities: Array<MediaKeySystemMediaCapability>? = arrayOf(), distinctiveIdentifier: MediaKeysRequirement? = MediaKeysRequirement.OPTIONAL, persistentState: MediaKeysRequirement? = MediaKeysRequirement.OPTIONAL, sessionTypes: Array<String>? = undefined): MediaKeySystemConfiguration {\n   val o = js(\"({})\")\n   o[\"label\"] = label\n   o[\"initDataTypes\"] = initDataTypes\n   o[\"audioCapabilities\"] = audioCapabilities\n   o[\"videoCapabilities\"] = videoCapabilities\n   o[\"distinctiveIdentifier\"] = distinctiveIdentifier\n   o[\"persistentState\"] = persistentState\n   o[\"sessionTypes\"] = sessionTypes\n   return o\n}\n\npublic external interface MediaKeySystemMediaCapability {\n   var contentType: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var robustness: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaKeySystemMediaCapability(contentType: String? = \"\", robustness: String? = \"\"): MediaKeySystemMediaCapability {\n   val o = js(\"({})\")\n   o[\"contentType\"] = contentType\n   o[\"robustness\"] = robustness\n   return o\n}\n\n/**\n * Exposes the JavaScript [MediaKeySystemAccess](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemAccess) to Kotlin\n */\npublic external abstract class MediaKeySystemAccess {\n   open val keySystem: String\n   fun

getConfiguration(): MediaKeySystemConfiguration\n   fun createMediaKeys(): Promise<MediaKeys>\n}\n\n/**\n * Exposes the JavaScript [MediaKeys](https://developer.mozilla.org/en/docs/Web/API/MediaKeys) to Kotlin\n */\npublic external abstract class MediaKeys {\n   fun createSession(sessionType: MediaKeySessionType = definedExternally): MediaKeySession\n   fun setServerCertificate(serverCertificate: dynamic): Promise<Boolean>\n}\n\n/**\n * Exposes the JavaScript [MediaKeySession](https://developer.mozilla.org/en/docs/Web/API/MediaKeySession) to Kotlin\n */\npublic external abstract class MediaKeySession : EventTarget {\n   open val sessionId: String\n   open val expiration: Double\n   open val closed:
 Promise<Unit>\n   open val keyStatuses: MediaKeyStatusMap\n   open var onkeystatuseschange: ((Event) -> dynamic)?\n   open var onmessage: ((MessageEvent) -> dynamic)?\n   fun generateRequest(initDataType: String, initData: dynamic): Promise<Unit>\n   fun load(sessionId: String): Promise<Boolean>\n   fun update(response: dynamic): Promise<Unit>\n   fun close(): Promise<Unit>\n   fun remove(): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript [MediaKeyStatusMap](https://developer.mozilla.org/en/docs/Web/API/MediaKeyStatusMap) to Kotlin\n */\npublic external abstract class MediaKeyStatusMap {\n   open val size: Int\n   fun has(keyId: dynamic): Boolean\n   fun get(keyId: dynamic): Any?\n}\n\n/**\n * Exposes the JavaScript [MediaKeyMessageEvent](https://developer.mozilla.org/en/docs/Web/API/MediaKeyMessageEvent) to Kotlin\n */\npublic external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) : Event {\n   open val messageType: MediaKeyMessageType\n
    open val message: ArrayBuffer\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface MediaKeyMessageEventInit : EventInit {\n   var messageType: MediaKeyMessageType?\n   var message: ArrayBuffer?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaKeyMessageEventInit(messageType: MediaKeyMessageType?, message: ArrayBuffer?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaKeyMessageEventInit {\n   val o = js(\"({})\")\n   o[\"messageType\"] = messageType\n   o[\"message\"] = message\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\npublic external open class MediaEncryptedEvent(type: String, eventInitDict: MediaEncryptedEventInit = definedExternally) : Event {\n   open val initDataType: String\n   open val initData: ArrayBuffer?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface MediaEncryptedEventInit : EventInit {\n   var initDataType: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var initData: ArrayBuffer? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaEncryptedEventInit(initDataType: String? = \"\", initData: ArrayBuffer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaEncryptedEventInit {\n   val o = js(\"({})\")\n   o[\"initDataType\"] = initDataType\n   o[\"initData\"] = initData\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] =
 cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaKeysRequirement {\n   companion object\n}\n\npublic inline val MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() = \"required\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() = \"optional\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = \"not-allowed\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n/* please, don't implement this interface!

/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaKeySessionType {\n   companion object\n}\n\npublic inline val MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() = \"temporary\".asDynamic().unsafeCast<MediaKeySessionType>()\n\npublic inline val MediaKeySessionType.Companion.PERSISTENT_LICENSE: MediaKeySessionType get() = \"persistent-license\".asDynamic().unsafeCast<MediaKeySessionType>()\n\n/ please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaKeyStatus {\n   companion object\n}\n\npublic inline val MediaKeyStatus.Companion.USABLE: MediaKeyStatus get() = \"usable\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() = \"expired\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() = \"released\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = \"output-restricted\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus get() = \"output-downscaled\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = \"status-pending\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = \"internal-error\".asDynamic().unsafeCast<MediaKeyStatus>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaKeyMessageType {\n   companion object\n}\n\npublic inline val MediaKeyMessageType.Companion.LICENSE_REQUEST: MediaKeyMessageType get() = \"license-request\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val MediaKeyMessageType.Companion.LICENSE_RENEWAL: MediaKeyMessageType get() = \"license-renewal\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val MediaKeyMessageType.Companion.LICENSE_RELEASE: MediaKeyMessageType get() = \"license-release\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val MediaKeyMessageType.Companion.INDIVIDUALIZATION_REQUEST: MediaKeyMessageType get() = \"individualization-request\".asDynamic().unsafeCast<MediaKeyMessageType>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.events\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\n/**\n * Exposes the JavaScript [UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n */\npublic external open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n   open val view: Window?\n   open val detail: Int\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface UIEventInit : EventInit {\n   var view: Window? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var detail: Int? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun UIEventInit(view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): UIEventInit {\n   val o = js(\"({})\")\n   o[\"view\"] = view\n   o[\"detail\"] = detail\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\n */\npublic external open class

FocusEvent(type:
 String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {\n   open val relatedTarget:
EventTarget?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val
AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface FocusEventInit :
UIEventInit {\n   var relatedTarget: EventTarget? /* = null */\n   get() = definedExternally\n   set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FocusEventInit(relatedTarget:
EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): FocusEventInit {\n   val o = js(\"({})\")\n   o[\"relatedTarget\"] =
relatedTarget\n   o[\"view\"] = view\n   o[\"detail\"] = detail\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] =
cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n
 * Exposes the JavaScript [MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\n
 */\npublic external open class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) :
UIEvent, UnionElementOrMouseEvent {\n   open val screenX: Int\n   open val screenY: Int\n   open val clientX:
Int\n   open val clientY: Int\n   open val ctrlKey: Boolean\n   open val shiftKey: Boolean\n   open val altKey:
Boolean\n   open val metaKey: Boolean\n   open val button: Short\n   open val buttons: Short\n   open val
relatedTarget: EventTarget?\n   open val region: String?\n   open val pageX: Double\n   open val pageY: Double\n
 open val x: Double\n   open val y: Double\n   open val offsetX: Double\n   open val offsetY: Double\n   fun
getModifierState(keyArg: String): Boolean\n\n   companion object {\n   val NONE: Short\n   val
CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n
}\n}\n\npublic
 external interface MouseEventInit : EventModifierInit {\n   var screenX: Int? /* = 0 */\n   get() =
definedExternally\n   set(value) = definedExternally\n   var screenY: Int? /* = 0 */\n   get() =
definedExternally\n   set(value) = definedExternally\n   var clientX: Int? /* = 0 */\n   get() =
definedExternally\n   set(value) = definedExternally\n   var clientY: Int? /* = 0 */\n   get() =
definedExternally\n   set(value) = definedExternally\n   var button: Short? /* = 0 */\n   get() =
definedExternally\n   set(value) = definedExternally\n   var buttons: Short? /* = 0 */\n   get() =
definedExternally\n   set(value) = definedExternally\n   var relatedTarget: EventTarget? /* = null */\n   get()
= definedExternally\n   set(value) = definedExternally\n   var region: String? /* = null */\n   get() =
definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MouseEventInit(screenX: Int? = 0,
screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget:
EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean?
= false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false,
modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false,
modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MouseEventInit {\n   val o =
js(\"({})\")\n   o[\"screenX\"] = screenX\n   o[\"screenY\"] = screenY\n   o[\"clientX\"] = clientX\n   o[\"clientY\"]
= clientY\n
    o[\"button\"] = button\n   o[\"buttons\"] = buttons\n   o[\"relatedTarget\"] = relatedTarget\n   o[\"region\"] =
region\n   o[\"ctrlKey\"] = ctrlKey\n   o[\"shiftKey\"] = shiftKey\n   o[\"altKey\"] = altKey\n   o[\"metaKey\"] =
metaKey\n   o[\"modifierAltGraph\"] = modifierAltGraph\n   o[\"modifierCapsLock\"] = modifierCapsLock\n
o[\"modifierFn\"] = modifierFn\n   o[\"modifierFnLock\"] = modifierFnLock\n   o[\"modifierHyper\"] =
modifierHyper\n   o[\"modifierNumLock\"] = modifierNumLock\n   o[\"modifierScrollLock\"] =
modifierScrollLock\n   o[\"modifierSuper\"] = modifierSuper\n   o[\"modifierSymbol\"] = modifierSymbol\n
o[\"modifierSymbolLock\"] = modifierSymbolLock\n   o[\"view\"] = view\n   o[\"detail\"] = detail\n
o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return

o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n   var ctrlKey: Boolean? /* = false */\n get() = definedExternally\n

set(value) = definedExternally\n   var shiftKey: Boolean? /* = false */\n   get() = definedExternally\n set(value) = definedExternally\n   var altKey: Boolean? /* = false */\n   get() = definedExternally\n set(value) = definedExternally\n   var metaKey: Boolean? /* = false */\n   get() = definedExternally\n set(value) = definedExternally\n   var modifierAltGraph: Boolean? /* = false */\n   get() = definedExternally\n set(value) = definedExternally\n   var modifierCapsLock: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var modifierFn: Boolean? /* = false */\n   get() = definedExternally\n set(value) = definedExternally\n   var modifierFnLock: Boolean? /* = false */\n   get() = definedExternally\n set(value) = definedExternally\n   var modifierHyper: Boolean? /* = false */\n   get() = definedExternally\n set(value) = definedExternally\n

var modifierNumLock: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var modifierScrollLock: Boolean? /* = false */\n   get() = definedExternally\n set(value) = definedExternally\n   var modifierSuper: Boolean? /* = false */\n   get() = definedExternally\n set(value) = definedExternally\n   var modifierSymbol: Boolean? /* = false */\n   get() = definedExternally\n set(value) = definedExternally\n   var modifierSymbolLock: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventModifierInit(ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventModifierInit {\n   val o = js(\"({})\")\n   o[\"ctrlKey\"] = ctrlKey\n   o[\"shiftKey\"] = shiftKey\n   o[\"altKey\"] = altKey\n   o[\"metaKey\"] = metaKey\n   o[\"modifierAltGraph\"] = modifierAltGraph\n   o[\"modifierCapsLock\"] = modifierCapsLock\n   o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n   o[\"modifierHyper\"] = modifierHyper\n   o[\"modifierNumLock\"] = modifierNumLock\n   o[\"modifierScrollLock\"] = modifierScrollLock\n   o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n   o[\"modifierSymbolLock\"] = modifierSymbolLock\n   o[\"view\"] = view\n   o[\"detail\"]

 = detail\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\npublic external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n   open val deltaX: Double\n   open val deltaY: Double\n   open val deltaZ: Double\n   open val deltaMode: Int\n\n   companion object {\n   val DOM_DELTA_PIXEL: Int\n   val DOM_DELTA_LINE: Int\n   val DOM_DELTA_PAGE: Int\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface WheelEventInit : MouseEventInit {\n   var deltaX: Double? /* = 0.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var deltaY: Double? /* = 0.0 */\n   get() = definedExternally\n

set(value) = definedExternally\n   var deltaZ: Double? /* = 0.0 */\n   get() = definedExternally\n set(value) = definedExternally\n   var deltaMode: Int? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun WheelEventInit(deltaX: Double? = 0.0, deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,

modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
 modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n   val o = js(\"({})\")\n   o[\"deltaX\"] = deltaX\n   o[\"deltaY\"] = deltaY\n   o[\"deltaZ\"] = deltaZ\n   o[\"deltaMode\"] = deltaMode\n   o[\"screenX\"] = screenX\n   o[\"screenY\"] = screenY\n   o[\"clientX\"] = clientX\n   o[\"clientY\"] = clientY\n   o[\"button\"] = button\n   o[\"buttons\"] = buttons\n   o[\"relatedTarget\"] = relatedTarget\n   o[\"region\"] = region\n   o[\"ctrlKey\"] = ctrlKey\n   o[\"shiftKey\"] = shiftKey\n   o[\"altKey\"] = altKey\n   o[\"metaKey\"] = metaKey\n   o[\"modifierAltGraph\"] = modifierAltGraph\n   o[\"modifierCapsLock\"] = modifierCapsLock\n   o[\"modifierFn\"] = modifierFn\n   o[\"modifierFnLock\"] = modifierFnLock\n   o[\"modifierHyper\"] = modifierHyper\n   o[\"modifierNumLock\"] = modifierNumLock\n   o[\"modifierScrollLock\"] = modifierScrollLock\n   o[\"modifierSuper\"] = modifierSuper\n   o[\"modifierSymbol\"] = modifierSymbol\n   o[\"modifierSymbolLock\"] = modifierSymbolLock\n   o[\"view\"] = view\n   o[\"detail\"] = detail\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin\n */\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {\n   open val data: String\n   open val isComposing: Boolean\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface InputEventInit : UIEventInit {\n   var data: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n
    var isComposing: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun InputEventInit(data: String? = \"\", isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): InputEventInit {\n   val o = js(\"({})\")\n   o[\"data\"] = data\n   o[\"isComposing\"] = isComposing\n   o[\"view\"] = view\n   o[\"detail\"] = detail\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n */\npublic external open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n   open val key: String\n   open val
 code: String\n   open val location: Int\n   open val ctrlKey: Boolean\n   open val shiftKey: Boolean\n   open val altKey: Boolean\n   open val metaKey: Boolean\n   open val repeat: Boolean\n   open val isComposing: Boolean\n   open val charCode: Int\n   open val keyCode: Int\n   open val which: Int\n   fun getModifierState(keyArg: String): Boolean\n\n   companion object {\n   val DOM_KEY_LOCATION_STANDARD: Int\n   val DOM_KEY_LOCATION_LEFT: Int\n   val DOM_KEY_LOCATION_RIGHT: Int\n   val DOM_KEY_LOCATION_NUMPAD: Int\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface KeyboardEventInit : EventModifierInit {\n   var key: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var code: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var location:
 Int? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var repeat: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var isComposing: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun KeyboardEventInit(key: String? = \"\", code: String? = \"\", location: Int? = 0, repeat: Boolean? = false, isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:

Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock:

 Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit {\n   val o = js(\"({})\")\n   o[\"key\"] = key\n   o[\"code\"] = code\n   o[\"location\"] = location\n   o[\"repeat\"] = repeat\n   o[\"isComposing\"] = isComposing\n   o[\"ctrlKey\"] = ctrlKey\n   o[\"shiftKey\"] = shiftKey\n   o[\"altKey\"] = altKey\n   o[\"metaKey\"] = metaKey\n   o[\"modifierAltGraph\"] = modifierAltGraph\n   o[\"modifierCapsLock\"] = modifierCapsLock\n   o[\"modifierFn\"] = modifierFn\n   o[\"modifierFnLock\"] = modifierFnLock\n   o[\"modifierHyper\"] = modifierHyper\n   o[\"modifierNumLock\"] = modifierNumLock\n   o[\"modifierScrollLock\"] = modifierScrollLock\n   o[\"modifierSuper\"] = modifierSuper\n   o[\"modifierSymbol\"] = modifierSymbol\n   o[\"modifierSymbolLock\"] = modifierSymbolLock\n   o[\"view\"] = view\n   o[\"detail\"] = detail\n   o[\"bubbles\"] = bubbles\n

   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n */\npublic external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) : UIEvent {\n   open val data: String\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface CompositionEventInit : UIEventInit {\n   var data: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CompositionEventInit(data: String? = \"\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit

 {\n   val o = js(\"({})\")\n   o[\"data\"] = data\n   o[\"view\"] = view\n   o[\"detail\"] = detail\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n */\npublic external open class Event(type: String, eventInitDict: EventInit = definedExternally) {\n   open val type: String\n   open val target: EventTarget?\n   open val currentTarget: EventTarget?\n   open val eventPhase: Short\n   open val bubbles: Boolean\n   open val cancelable: Boolean\n   open val defaultPrevented: Boolean\n   open val composed: Boolean\n   open val isTrusted: Boolean\n   open val timeStamp: Number\n   fun composedPath(): Array<EventTarget>\n   fun stopPropagation()\n   fun stopImmediatePropagation()\n   fun preventDefault()\n   fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n   companion object

 {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\n */\npublic external abstract class EventTarget {\n   fun addEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)\n   fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)\n   fun removeEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)\n   fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)\n   fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the JavaScript [EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n */\npublic external interface EventListener {\n   fun handleEvent(event: Event)\n}","/*\n

org.w3c.dom.svg.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class HTMLAllCollection {\n   open val length: Int\n   fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\n   fun namedItem(name: String): UnionElementOrHTMLCollection?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLAllCollection.get(index: Int): Element? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection) to Kotlin\n */\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n */\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n   open var value: String\n}\n\n/**\n * Exposes the JavaScript [HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n */\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\n   override var length: Int\n   open var selectedIndex: Int\n   fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n   fun remove(index: Int)\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n * Exposes the JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n */\npublic external abstract class HTMLElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers, ElementContentEditable, ElementCSSInlineStyle {\n   open var title: String\n   open var lang: String\n   open var translate: Boolean\n   open var dir: String\n   open val dataset: DOMStringMap\n   open var hidden: Boolean\n   open var tabIndex: Int\n   open var accessKey: String\n   open val accessKeyLabel: String\n   open var draggable: Boolean\n   open val dropzone: DOMTokenList\n   open var contextMenu: HTMLMenuElement?\n   open var spellcheck: Boolean\n   open var innerText: String\n   open val offsetParent: Element?\n   open val offsetTop: Int\n   open val offsetLeft: Int\n   open val offsetWidth: Int\n   open val offsetHeight: Int\n   fun click()\n   fun focus()\n   fun blur()\n   fun forceSpellCheck()\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\n */\npublic external abstract class HTMLUnknownElement : HTMLElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING:

Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n */\npublic external abstract class DOMStringMap\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }\n\n/**\n * Exposes the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\n */\npublic external abstract class HTMLHtmlElement : HTMLElement {\n   open var version: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin\n */\npublic external abstract class HTMLHeadElement : HTMLElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\n */\npublic external abstract class HTMLTitleElement : HTMLElement {\n   open var text: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\n */\npublic external abstract class HTMLBaseElement : HTMLElement {\n   open var href: String\n   open var target: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n

val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin\n */\npublic external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\n

open var href: String\n   open var crossOrigin: String?\n   open var rel: String\n   open var `as`: RequestDestination\n   open val relList: DOMTokenList\n   open var media: String\n   open var nonce: String\n   open var hreflang: String\n   open var type: String\n   open val sizes: DOMTokenList\n   open var referrerPolicy: String\n   open var charset: String\n   open var rev: String\n   open var target: String\n   open var scope: String\n   open var workerType: WorkerType\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n */\npublic external abstract class HTMLMetaElement : HTMLElement {\n   open var name: String\n   open var httpEquiv: String\n   open var content: String\n   open var scheme: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin\n */\npublic external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\n   open var media: String\n   open var nonce: String\n   open var type: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\n */\npublic external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {\n   open var text: String\n

open var link: String\n   open var vLink: String\n   open var aLink: String\n   open var bgColor: String\n   open var background: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\n */\npublic external abstract class HTMLHeadingElement : HTMLElement {\n   open var align: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin\n */\npublic external abstract class HTMLParagraphElement : HTMLElement {\n   open var align: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\n */\npublic external abstract class HTMLHRElement : HTMLElement {\n   open var align: String\n   open var color: String\n   open var noShade: Boolean\n   open var size: String\n   open var width: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\n */\npublic

external abstract class HTMLPreElement : HTMLElement {\n   open var width: Int\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin\n */\npublic external abstract class HTMLQuoteElement : HTMLElement {\n   open var cite: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOListElement) to Kotlin\n */\npublic external abstract class HTMLOListElement : HTMLElement {\n   open var reversed: Boolean\n   open var start: Int\n   open var type: String\n   open var compact: Boolean\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin\n */\npublic external abstract class HTMLUListElement : HTMLElement {\n   open var compact: Boolean\n   open var type: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin\n */\npublic external abstract class HTMLLIElement : HTMLElement {\n   open var value: Int\n   open var type: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE:

Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin\n */\npublic external abstract class HTMLDListElement : HTMLElement {\n   open var compact: Boolean\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin\n */\npublic external abstract class HTMLDivElement : HTMLElement {\n   open var align: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin\n */\npublic external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils {\n   open var target: String\n   open var download: String\n   open var ping: String\n   open var rel: String\n   open val relList: DOMTokenList\n   open var hreflang: String\n   open var type: String\n   open var text: String\n   open var referrerPolicy: String\n   open var coords: String\n   open var charset: String\n   open var name: String\n   open var rev: String\n   open var shape: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin\n */\npublic external abstract class HTMLDataElement : HTMLElement {\n   open var value: String\n\n   companion object {\n

val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin\n */\npublic external abstract class HTMLTimeElement : HTMLElement {\n   open var dateTime: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin\n */\npublic external abstract class HTMLSpanElement : HTMLElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\n */\npublic external abstract class HTMLBRElement : HTMLElement {\n   open var clear: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin\n */\npublic external interface HTMLHyperlinkElementUtils {\n   var href: String\n   val origin: String\n   var protocol: String\n   var username: String\n   var password: String\n   var host: String\n   var hostname: String\n   var port: String\n   var pathname: String\n   var search: String\n   var hash: String\n}\n\n/**\n * Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin\n */\npublic

external abstract class HTMLModElement : HTMLElement {\n   open var cite: String\n   open var dateTime: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n */\npublic external abstract class HTMLPictureElement : HTMLElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\n */\npublic external abstract class HTMLSourceElement : HTMLElement {\n   open var src: String\n   open var type: String\n   open var srcset: String\n   open var sizes: String\n   open var media: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\n */\npublic external abstract class HTMLImageElement : HTMLElement, HTMLOrSVGImageElement, TexImageSource {\n   open var alt: String\n   open var src: String\n   open var srcset: String\n   open var sizes: String\n   open var crossOrigin: String?\n   open var useMap: String\n   open var isMap: Boolean\n   open var width: Int\n   open var height: Int\n   open val naturalWidth: Int\n   open val naturalHeight: Int\n   open val complete: Boolean\n   open val currentSrc: String\n   open var referrerPolicy: String\n   open var name: String\n   open var lowsrc: String\n   open var align: String\n   open var hspace: Int\n   open var vspace: Int\n   open var longDesc: String\n   open var border: String\n   open val x: Int\n   open val y: Int\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val

DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin\n */\npublic external abstract class HTMLIFrameElement : HTMLElement {\n   open var src: String\n   open var srcdoc: String\n   open var name: String\n   open val sandbox: DOMTokenList\n

    open var allowFullscreen: Boolean\n   open var allowUserMedia: Boolean\n   open var width: String\n   open var height: String\n   open var referrerPolicy: String\n   open val contentDocument: Document?\n   open val contentWindow: Window?\n   open var align: String\n   open var scrolling: String\n   open var frameBorder: String\n   open var longDesc: String\n   open var marginHeight: String\n   open var marginWidth: String\n   fun getSVGDocument(): Document?\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n

        val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\n */\npublic external abstract class HTMLEmbedElement : HTMLElement {\n   open var src: String\n   open var type: String\n   open var width: String\n   open var height: String\n   open var align: String\n   open var name: String\n   fun getSVGDocument(): Document?\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE:

 Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin\n */\npublic external abstract class HTMLObjectElement : HTMLElement {\n   open var data: String\n   open var type: String\n   open var typeMustMatch: Boolean\n   open var name: String\n   open var useMap: String\n   open val form: HTMLFormElement?\n   open var width: String\n   open var height: String\n   open val contentDocument: Document?\n   open val contentWindow: Window?\n   open val willValidate:

 Boolean\n   open val validity: ValidityState\n   open val validationMessage: String\n   open var align: String\n   open var archive: String\n   open var code: String\n   open var declare: Boolean\n   open var hspace: Int\n   open var standby: String\n   open var vspace: Int\n   open var codeBase: String\n   open var codeType: String\n   open var border: String\n   fun getSVGDocument(): Document?\n   fun checkValidity(): Boolean\n   fun reportValidity(): Boolean\n   fun setCustomValidity(error: String)\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val

DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin\n */\npublic external abstract class HTMLParamElement : HTMLElement {\n   open var name: String\n   open var value: String\n   open var type: String\n   open var valueType: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin\n */\npublic external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {\n   open var width: Int\n   open var height: Int\n   open val videoWidth: Int\n   open val videoHeight: Int\n   open var poster: String\n   open var playsInline: Boolean\n\n   companion object {\n   val NETWORK_EMPTY: Short\n   val NETWORK_IDLE: Short\n   val NETWORK_LOADING: Short\n   val NETWORK_NO_SOURCE: Short\n   val HAVE_NOTHING: Short\n   val HAVE_METADATA: Short\n   val HAVE_CURRENT_DATA: Short\n   val HAVE_FUTURE_DATA: Short\n   val HAVE_ENOUGH_DATA: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement) to Kotlin\n */\npublic external abstract class HTMLAudioElement : HTMLMediaElement {\n   companion object {\n   val NETWORK_EMPTY: Short\n   val NETWORK_IDLE: Short\n   val NETWORK_LOADING: Short\n   val NETWORK_NO_SOURCE: Short\n   val HAVE_NOTHING: Short\n   val HAVE_METADATA: Short\n   val HAVE_CURRENT_DATA: Short\n   val HAVE_FUTURE_DATA: Short\n   val HAVE_ENOUGH_DATA: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING:

Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\n */\npublic external abstract class HTMLTrackElement : HTMLElement {\n   open var kind: String\n   open var src: String\n   open var srclang: String\n   open var label: String\n   open var default: Boolean\n   open val readyState: Short\n   open val track: TextTrack\n\n   companion object {\n   val NONE: Short\n   val LOADING: Short\n   val LOADED: Short\n   val ERROR: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin\n */\npublic external abstract class HTMLMediaElement : HTMLElement {\n   open val error: MediaError?\n   open var src: String\n   open var srcObject: MediaProvider?\n   open val currentSrc: String\n   open var crossOrigin: String?\n   open val networkState: Short\n   open var preload: String\n   open val buffered: TimeRanges\n   open val readyState: Short\n   open val seeking: Boolean\n   open var currentTime: Double\n   open val duration: Double\n   open val paused: Boolean\n   open var defaultPlaybackRate: Double\n   open var playbackRate: Double\n   open val played: TimeRanges\n   open val seekable: TimeRanges\n   open val ended: Boolean\n   open var autoplay: Boolean\n   open var loop: Boolean\n   open var controls: Boolean\n   open var volume: Double\n   open var muted: Boolean\n   open var defaultMuted: Boolean\n   open val audioTracks: AudioTrackList\n   open val videoTracks: VideoTrackList\n   open val textTracks: TextTrackList\n   open val mediaKeys: MediaKeys?\n   open var onencrypted: ((Event) -> dynamic)?\n   open var onwaitingforkey: ((Event) -> dynamic)?\n   fun load()\n   fun canPlayType(type: String): CanPlayTypeResult\n   fun fastSeek(time: Double)\n   fun getStartDate(): dynamic\n   fun play(): Promise<Unit>\n   fun pause()\n   fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack\n   fun setMediaKeys(mediaKeys: MediaKeys?): Promise<Unit>\n\n   companion object {\n   val NETWORK_EMPTY: Short\n   val NETWORK_IDLE: Short\n   val NETWORK_LOADING: Short\n   val NETWORK_NO_SOURCE: Short\n   val HAVE_NOTHING: Short\n   val HAVE_METADATA: Short\n   val HAVE_CURRENT_DATA: Short\n   val HAVE_FUTURE_DATA: Short\n   val HAVE_ENOUGH_DATA: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin\n */\npublic external abstract class MediaError {\n   open val code: Short\n\n   companion object {\n   val MEDIA_ERR_ABORTED: Short\n   val MEDIA_ERR_NETWORK: Short\n   val MEDIA_ERR_DECODE:

Short\n   val MEDIA_ERR_SRC_NOT_SUPPORTED: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin\n */\npublic external abstract class AudioTrackList : EventTarget {\n   open val length: Int\n   open var onchange: ((Event) -> dynamic)?\n   open var onaddtrack: ((TrackEvent) -> dynamic)?\n   open var onremovetrack: ((TrackEvent) -> dynamic)?\n

    fun getTrackById(id: String): AudioTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\n */\npublic external abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n   open val id: String\n   open val kind: String\n   open val label: String\n   open val language: String\n   open var enabled: Boolean\n   open val sourceBuffer: SourceBuffer?\n}\n\n/**\n * Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\n */\npublic external abstract class VideoTrackList : EventTarget {\n   open val length: Int\n   open val selectedIndex: Int\n   open var onchange: ((Event) -> dynamic)?\n   open var onaddtrack: ((TrackEvent) -> dynamic)?\n   open var onremovetrack:
 ((TrackEvent) -> dynamic)?\n   fun getTrackById(id: String): VideoTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index: Int): VideoTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n */\npublic external abstract class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n   open val id: String\n   open val kind: String\n   open val label: String\n   open val language: String\n   open var selected: Boolean\n   open val sourceBuffer: SourceBuffer?\n}\n\npublic external abstract class TextTrackList : EventTarget {\n   open val length: Int\n   open var onchange: ((Event) -> dynamic)?\n   open var onaddtrack: ((TrackEvent) -> dynamic)?\n   open var onremovetrack: ((TrackEvent) -> dynamic)?\n   fun getTrackById(id: String): TextTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic

 inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n */\npublic external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n   open val kind: TextTrackKind\n   open val label: String\n   open val language: String\n   open val id: String\n   open val inBandMetadataTrackDispatchType: String\n   open var mode: TextTrackMode\n   open val cues: TextTrackCueList?\n   open val activeCues: TextTrackCueList?\n   open var oncuechange: ((Event) -> dynamic)?\n   open val sourceBuffer: SourceBuffer?\n   fun addCue(cue: TextTrackCue)\n   fun removeCue(cue: TextTrackCue)\n}\n\npublic external abstract class TextTrackCueList {\n   open val length: Int\n   fun getCueById(id: String): TextTrackCue?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic

 inline operator fun TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n */\npublic external abstract class TextTrackCue : EventTarget {\n   open val track: TextTrack?\n   open var id: String\n   open var startTime: Double\n   open var endTime: Double\n   open var pauseOnExit: Boolean\n   open var onenter: ((Event) -> dynamic)?\n   open var onexit: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript [TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n */\npublic external abstract class TimeRanges {\n   open val length: Int\n   fun start(index: Int): Double\n   fun end(index: Int): Double\n}\n\n/**\n * Exposes the JavaScript [TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n */\npublic external open class TrackEvent(type: String, eventInitDict: TrackEventInit

= definedExternally) : Event {\n   open val track: UnionAudioTrackOrTextTrackOrVideoTrack?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface TrackEventInit : EventInit {\n   var track: UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track: UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): TrackEventInit {\n   val o = js(\"({})\")\n   o[\"track\"] = track\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin\n */\npublic external abstract class HTMLMapElement : HTMLElement {\n   open var name: String\n   open val areas: HTMLCollection\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin\n */\npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {\n   open var alt: String\n   open var coords: String\n   open var shape: String\n   open var target: String\n   open var download: String\n   open var ping: String\n   open var rel: String\n   open val relList: DOMTokenList\n   open var referrerPolicy: String\n   open var noHref: Boolean\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n */\npublic external abstract class HTMLTableElement : HTMLElement {\n   open var caption: HTMLTableCaptionElement?\n   open var tHead: HTMLTableSectionElement?\n   open var tFoot: HTMLTableSectionElement?\n   open val tBodies: HTMLCollection\n   open val rows: HTMLCollection\n   open var align: String\n   open var border: String\n   open var frame: String\n   open var rules: String\n   open var summary: String\n   open var width: String\n   open var bgColor: String\n   open var cellPadding: String\n   open var cellSpacing: String\n   fun createCaption(): HTMLTableCaptionElement\n   fun deleteCaption()\n   fun createTHead(): HTMLTableSectionElement\n   fun deleteTHead()\n   fun createTFoot(): HTMLTableSectionElement\n   fun deleteTFoot()\n   fun createTBody(): HTMLTableSectionElement\n   fun insertRow(index: Int = definedExternally): HTMLTableRowElement\n   fun deleteRow(index: Int)\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE:

Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY:
Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to Kotlin\n */\npublic external abstract class HTMLTableCaptionElement : HTMLElement {\n   open var align: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n */\npublic external abstract class HTMLTableColElement : HTMLElement {\n   open var span: Int\n   open var align: String\n   open var ch: String\n   open var chOff: String\n   open var vAlign: String\n   open var width: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED:
Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin\n */\npublic external abstract class HTMLTableSectionElement : HTMLElement {\n   open val rows: HTMLCollection\n   open var align: String\n   open var ch: String\n   open var chOff: String\n   open var vAlign: String\n   fun insertRow(index: Int = definedExternally): HTMLElement\n   fun deleteRow(index: Int)\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE:
Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\n */\npublic external abstract class HTMLTableRowElement : HTMLElement {\n   open val rowIndex: Int\n   open

val sectionRowIndex: Int\n   open val cells: HTMLCollection\n   open var align: String\n   open var ch: String\n open var chOff: String\n   open var vAlign: String\n   open var bgColor: String\n   fun insertCell(index: Int = definedExternally):
HTMLElement\n   fun deleteCell(index: Int)\n\n   companion object {\n   val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin\n */\npublic external
abstract class HTMLTableCellElement : HTMLElement {\n   open var colSpan: Int\n   open var rowSpan: Int\n open var headers: String\n   open val cellIndex: Int\n   open var scope: String\n   open var abbr: String\n   open var align: String\n   open var axis: String\n   open var height: String\n   open var width: String\n   open var ch: String\n   open var chOff: String\n   open var noWrap: Boolean\n   open var vAlign: String\n   open var bgColor: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n
    val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\n */\npublic external abstract class HTMLFormElement : HTMLElement {\n   open var acceptCharset: String\n   open var action: String\n   open var autocomplete: String\n   open var enctype: String\n   open var encoding: String\n   open var method: String\n   open var name: String\n   open var noValidate: Boolean\n   open var target: String\n   open val elements: HTMLFormControlsCollection\n   open val length: Int\n   fun submit()\n   fun reset()\n   fun checkValidity(): Boolean\n   fun reportValidity(): Boolean\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE:
Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLFormElement.get(index: Int): Element? =

asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin\n */\npublic external abstract class HTMLLabelElement : HTMLElement {\n   open val form: HTMLFormElement?\n   open var htmlFor: String\n   open val control: HTMLElement?\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n */\npublic external abstract class HTMLInputElement : HTMLElement {\n   open var accept: String\n   open var alt: String\n   open var autocomplete: String\n   open var autofocus: Boolean\n   open var defaultChecked: Boolean\n   open var checked: Boolean\n   open var dirName: String\n   open var disabled: Boolean\n   open val form: HTMLFormElement?\n   open val files: FileList?\n   open var formAction: String\n   open var formEnctype: String\n   open var formMethod: String\n   open var formNoValidate: Boolean\n   open var formTarget: String\n   open var height: Int\n   open var indeterminate: Boolean\n   open var inputMode: String\n   open val list: HTMLElement?\n   open var max: String\n   open var maxLength: Int\n   open var min: String\n   open var minLength: Int\n   open var multiple: Boolean\n   open var name: String\n   open var pattern: String\n   open var placeholder: String\n   open var readOnly: Boolean\n   open var required: Boolean\n   open var size: Int\n   open var src: String\n   open var step: String\n   open var type: String\n   open var defaultValue: String\n   open var value: String\n   open var valueAsDate: dynamic\n   open var valueAsNumber: Double\n   open var width: Int\n   open val willValidate: Boolean\n   open val validity: ValidityState\n   open val validationMessage: String\n   open val labels: NodeList\n   open var selectionStart: Int?\n   open var selectionEnd: Int?\n   open var selectionDirection: String?\n   open var align: String\n   open var useMap: String\n   fun stepUp(n: Int = definedExternally)\n   fun stepDown(n: Int = definedExternally)\n   fun checkValidity(): Boolean\n   fun reportValidity(): Boolean\n   fun setCustomValidity(error: String)\n   fun select()\n   fun setRangeText(replacement: String)\n   fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)\n   fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally)\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin\n */\npublic external abstract class HTMLButtonElement : HTMLElement {\n   open var autofocus: Boolean\n   open var disabled: Boolean\n   open val form: HTMLFormElement?\n   open var formAction: String\n

open var formEnctype: String\n   open var formMethod: String\n   open var formNoValidate: Boolean\n   open var formTarget: String\n   open var name: String\n   open var type: String\n   open var value: String\n   open var menu: HTMLMenuElement?\n   open val willValidate: Boolean\n   open val validity: ValidityState\n   open val validationMessage: String\n   open val labels: NodeList\n   fun checkValidity(): Boolean\n   fun reportValidity(): Boolean\n   fun setCustomValidity(error: String)\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin\n */\npublic external abstract class HTMLSelectElement : HTMLElement, ItemArrayLike<Element> {\n   open var autocomplete: String\n

   open var autofocus: Boolean\n   open var disabled: Boolean\n   open val form: HTMLFormElement?\n   open var multiple: Boolean\n   open var name: String\n   open var required: Boolean\n   open var size: Int\n   open val type: String\n   open val options: HTMLOptionsCollection\n   override var length: Int\n   open val selectedOptions: HTMLCollection\n   open var selectedIndex: Int\n   open var value: String\n   open val willValidate: Boolean\n   open val validity: ValidityState\n   open val validationMessage: String\n   open val labels: NodeList\n   fun namedItem(name: String): HTMLOptionElement?\n   fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n   fun remove(index: Int)\n   fun checkValidity(): Boolean\n   fun reportValidity(): Boolean\n   fun setCustomValidity(error: String)\n   override fun item(index: Int): Element?\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLSelectElement.get(index: Int): Element? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLSelectElement.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n * Exposes the JavaScript [HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n */\npublic external abstract class HTMLDataListElement : HTMLElement {\n   open val options: HTMLCollection\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val

PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n */\npublic external abstract class HTMLOptGroupElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {\n   open var disabled: Boolean\n   open var label: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\n */\npublic external abstract class HTMLOptionElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {\n   open var disabled: Boolean\n   open val form: HTMLFormElement?\n   open var label: String\n   open var defaultSelected: Boolean\n   open var selected: Boolean\n   open var value: String\n   open var text: String\n   open val index: Int\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\n */\npublic external abstract class HTMLTextAreaElement : HTMLElement {\n   open var autocomplete: String\n   open var autofocus: Boolean\n   open var cols: Int\n   open var dirName: String\n   open var disabled: Boolean\n   open val form: HTMLFormElement?\n   open var inputMode: String\n   open var maxLength: Int\n   open var minLength: Int\n   open var name: String\n   open var placeholder: String\n   open var readOnly: Boolean\n   open var required: Boolean\n   open var rows: Int\n   open var wrap: String\n   open val type: String\n   open var defaultValue: String\n   open var value: String\n   open val textLength: Int\n   open val willValidate: Boolean\n   open val validity: ValidityState\n   open val validationMessage: String\n   open val labels: NodeList\n   open var selectionStart: Int?\n   open var selectionEnd: Int?\n   open var selectionDirection: String?\n   fun checkValidity(): Boolean\n   fun reportValidity(): Boolean\n   fun setCustomValidity(error: String)\n   fun select()\n   fun setRangeText(replacement: String)\n   fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)\n   fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally)\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n

val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val
ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val
PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
      val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin\n
*/\npublic external abstract class HTMLKeygenElement : HTMLElement {\n   open var autofocus: Boolean\n
open var challenge: String\n   open var disabled: Boolean\n   open val
 form: HTMLFormElement?\n   open var keytype: String\n   open var name: String\n   open val type: String\n
open val willValidate: Boolean\n   open val validity: ValidityState\n   open val validationMessage: String\n   open
val labels: NodeList\n   fun checkValidity(): Boolean\n   fun reportValidity(): Boolean\n   fun
setCustomValidity(error: String)\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val
ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val
ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val
PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS:
 Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to Kotlin\n
*/\npublic external abstract class HTMLOutputElement : HTMLElement {\n   open val htmlFor: DOMTokenList\n
 open val form: HTMLFormElement?\n   open var name: String\n   open val type: String\n   open var
defaultValue: String\n   open var value: String\n   open val willValidate: Boolean\n   open val validity:
ValidityState\n   open val validationMessage: String\n   open val labels: NodeList\n   fun checkValidity():
Boolean\n   fun reportValidity(): Boolean\n   fun setCustomValidity(error: String)\n\n   companion object {\n
val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val
CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n
      val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val
COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n
      val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
      val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\n
*/\npublic external abstract class HTMLProgressElement : HTMLElement {\n   open var value: Double\n   open
var max: Double\n   open val position: Double\n   open val labels: NodeList\n\n   companion object {\n   val
ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n
      val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val
ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val
PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val

DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
      val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n */\npublic
external abstract class HTMLMeterElement : HTMLElement {\n   open var value: Double\n   open var min:
Double\n   open var max: Double\n   open var low: Double\n   open

var high: Double\n   open var optimum: Double\n   open val labels: NodeList\n\n   companion object {\n   val
ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val
CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE:
Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
      val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n
*/\npublic external abstract class HTMLFieldSetElement : HTMLElement {\n   open var disabled: Boolean\n
open val form: HTMLFormElement?\n   open var name: String\n   open val type: String\n   open val elements:
HTMLCollection\n   open val willValidate: Boolean\n   open val validity: ValidityState\n   open val
validationMessage: String\n   fun checkValidity(): Boolean\n   fun reportValidity(): Boolean\n   fun
setCustomValidity(error: String)\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val
ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val
ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val
PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING:
 Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val
DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n
  val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the
JavaScript [HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to
Kotlin\n */\npublic external abstract class HTMLLegendElement : HTMLElement {\n   open val form:
HTMLFormElement?\n   open var align: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n
 val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val
PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED:
 Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val
DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n */\npublic external
abstract class ValidityState {\n   open val valueMissing: Boolean\n   open val typeMismatch: Boolean\n   open val

patternMismatch: Boolean\n   open val tooLong: Boolean\n   open val tooShort: Boolean\n   open val rangeUnderflow: Boolean\n   open val rangeOverflow: Boolean\n   open val stepMismatch: Boolean\n   open val badInput: Boolean\n   open val customError: Boolean\n   open val valid: Boolean\n}\n\n/**\n * Exposes the JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin\n */\npublic external
 abstract class HTMLDetailsElement : HTMLElement {\n   open var open: Boolean\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class HTMLMenuElement : HTMLElement {\n   open var type: String\n   open var label: String\n   open var compact: Boolean\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class HTMLMenuItemElement : HTMLElement {\n   open var type: String\n   open var label: String\n   open var icon: String\n   open var disabled: Boolean\n   open var checked: Boolean\n   open var radiogroup: String\n   open var default: Boolean\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n   open val relatedTarget: EventTarget?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface RelatedEventInit : EventInit {\n   var relatedTarget: EventTarget? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun RelatedEventInit(relatedTarget: EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): RelatedEventInit {\n   val o = js(\"({})\")\n   o[\"relatedTarget\"] = relatedTarget\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n

*/\npublic external abstract class HTMLDialogElement
: HTMLElement {\n   open var open: Boolean\n   open var returnValue: String\n   fun show(anchor: UnionElementOrMouseEvent = definedExternally))\n   fun showModal(anchor: UnionElementOrMouseEvent = definedExternally))\n   fun close(returnValue: String = definedExternally))\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin\n */\npublic external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {\n   open var src: String\n   open var type: String\n   open var charset: String\n   open var async: Boolean\n   open var defer: Boolean\n   open var crossOrigin: String?\n   open var text: String\n   open var nonce: String\n   open var event: String\n   open var htmlFor: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin\n */\npublic external abstract class HTMLTemplateElement : HTMLElement {\n   open val content: DocumentFragment\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\n */\npublic external abstract class HTMLSlotElement : HTMLElement {\n   open var name: String\n   fun assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n

val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external interface AssignedNodesOptions {\n   var flatten: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun AssignedNodesOptions(flatten: Boolean? = false): AssignedNodesOptions {\n   val o = js(\"({})\")\n   o[\"flatten\"] = flatten\n   return o\n}\n\n/**\n * Exposes the JavaScript [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\n */\npublic external abstract class HTMLCanvasElement : HTMLElement, CanvasImageSource, TexImageSource {\n   open var width: Int\n   open var height: Int\n   fun getContext(contextId: String, vararg arguments: Any?): RenderingContext?\n   fun toDataURL(type: String = definedExternally, quality: Any? = definedExternally): String\n   fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality: Any? = definedExternally)\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external interface CanvasRenderingContext2DSettings {\n   var alpha: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\n   val o = js(\"({})\")\n   o[\"alpha\"] = alpha\n   return o\n}\n\n/**\n * Exposes the JavaScript [CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to Kotlin\n */\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform, CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters, CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion, CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\n   open val canvas: HTMLCanvasElement\n}\n\npublic external interface CanvasState {\n   fun save()\n   fun restore()\n}\n\npublic external interface CanvasTransform {\n   fun scale(x: Double, y: Double)\n   fun rotate(angle: Double)\n   fun translate(x: Double, y: Double)\n   fun transform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double)\n   fun getTransform(): DOMMatrix\n   fun setTransform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double)\n   fun setTransform(transform: dynamic = definedExternally)\n   fun resetTransform()\n}\n\npublic external interface CanvasCompositing {\n   var globalAlpha: Double\n   var globalCompositeOperation: String\n}\n\npublic external interface CanvasImageSmoothing {\n   var imageSmoothingEnabled: Boolean\n   var imageSmoothingQuality: ImageSmoothingQuality\n}\n\npublic external interface CanvasFillStrokeStyles {\n   var strokeStyle: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var fillStyle: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient\n   fun createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient\n   fun createPattern(image: CanvasImageSource, repetition:

String): CanvasPattern?\n}\n\npublic external interface CanvasShadowStyles {\n   var shadowOffsetX: Double\n   var shadowOffsetY: Double\n   var shadowBlur: Double\n   var shadowColor: String\n}\n\npublic external interface CanvasFilters {\n   var filter: String\n}\n\npublic external interface CanvasRect {\n   fun clearRect(x: Double, y: Double,
 w: Double, h: Double)\n   fun fillRect(x: Double, y: Double, w: Double, h: Double)\n   fun strokeRect(x: Double, y: Double, w: Double, h: Double)\n}\n\npublic external interface CanvasDrawPath {\n   fun beginPath()\n   fun fill(fillRule: CanvasFillRule = definedExternally)\n   fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n   fun stroke()\n   fun stroke(path: Path2D)\n   fun clip(fillRule: CanvasFillRule = definedExternally)\n   fun clip(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n   fun resetClip()\n   fun isPointInPath(x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n   fun isPointInPath(path: Path2D, x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n   fun isPointInStroke(x: Double, y: Double): Boolean\n   fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\n}\n\npublic external interface CanvasUserInterface {\n   fun drawFocusIfNeeded(element: Element)\n   fun drawFocusIfNeeded(path: Path2D, element: Element)\n   fun scrollPathIntoView()\n   fun scrollPathIntoView(path: Path2D)\n}\n\npublic external interface CanvasText {\n   fun fillText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n   fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n   fun measureText(text: String): TextMetrics\n}\n\npublic external interface CanvasDrawImage {\n   fun drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n   fun drawImage(image: CanvasImageSource, dx: Double, dy: Double, dw: Double, dh: Double)\n   fun drawImage(image: CanvasImageSource, sx: Double, sy: Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)\n}\n\npublic external interface CanvasHitRegion {\n   fun addHitRegion(options: HitRegionOptions = definedExternally)\n   fun removeHitRegion(id: String)\n   fun clearHitRegions()\n}\n\npublic external interface CanvasImageData {\n   fun
 createImageData(sw: Double, sh: Double): ImageData\n   fun createImageData(imagedata: ImageData): ImageData\n   fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\n   fun putImageData(imagedata: ImageData, dx: Double, dy: Double)\n   fun putImageData(imagedata: ImageData, dx: Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double)\n}\n\npublic external interface CanvasPathDrawingStyles {\n   var lineWidth: Double\n   var lineCap: CanvasLineCap\n   var lineJoin: CanvasLineJoin\n   var miterLimit: Double\n   var lineDashOffset: Double\n   fun setLineDash(segments: Array<Double>)\n   fun getLineDash(): Array<Double>\n}\n\npublic external interface CanvasTextDrawingStyles {\n   var font: String\n   var textAlign: CanvasTextAlign\n   var textBaseline: CanvasTextBaseline\n   var direction: CanvasDirection\n}\n\npublic external interface CanvasPath {\n   fun closePath()\n   fun moveTo(x: Double, y: Double)\n   fun
 lineTo(x: Double, y: Double)\n   fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n   fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n   fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n   fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n   fun rect(x: Double, y: Double, w: Double, h: Double)\n   fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally)\n   fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\npublic external abstract class CanvasGradient {\n   fun addColorStop(offset: Double, color: String)\n}\n\n/**\n * Exposes the JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\npublic external abstract class CanvasPattern {\n   fun setTransform(transform: dynamic = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n */\npublic external abstract class TextMetrics {\n   open val width: Double\n   open val actualBoundingBoxLeft: Double\n   open val actualBoundingBoxRight: Double\n   open val fontBoundingBoxAscent: Double\n   open val

fontBoundingBoxDescent: Double\n   open val actualBoundingBoxAscent: Double\n   open val actualBoundingBoxDescent: Double\n   open val emHeightAscent: Double\n   open val emHeightDescent: Double\n   open val hangingBaseline: Double\n   open val alphabeticBaseline: Double\n   open val ideographicBaseline: Double\n}\n\npublic external interface HitRegionOptions {\n   var path: Path2D? /* = null */\n   get()
= definedExternally\n   set(value) = definedExternally\n   var fillRule: CanvasFillRule? /* = CanvasFillRule.NONZERO */\n   get() = definedExternally\n   set(value) = definedExternally\n   var id: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var parentID: String? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var cursor: String? /* = \"inherit\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var control: Element? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var label: String? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var role: String? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HitRegionOptions(path:
Path2D? = null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = \"\", parentID: String? = null, cursor: String? = \"inherit\", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {\n   val o = js(\"({})\")\n   o[\"path\"] = path\n   o[\"fillRule\"] = fillRule\n   o[\"id\"] = id\n   o[\"parentID\"] = parentID\n   o[\"cursor\"] = cursor\n   o[\"control\"] = control\n   o[\"label\"] = label\n   o[\"role\"] = role\n   return o\n}\n\n/**\n * Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin\n */\npublic external open class ImageData : ImageBitmapSource, TexImageSource {\n   constructor(sw: Int, sh: Int)\n   constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n   open val width: Int\n   open val height: Int\n   open val data: Uint8ClampedArray\n}\n\n/**\n * Exposes the JavaScript [Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D)
to Kotlin\n */\npublic external open class Path2D() : CanvasPath {\n   constructor(path: Path2D)\n   constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)\n   constructor(d: String)\n   fun addPath(path: Path2D, transform: dynamic = definedExternally)\n   override fun closePath()\n   override fun moveTo(x: Double, y: Double)\n   override fun lineTo(x: Double, y: Double)\n   override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n   override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n   override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n   override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n   override fun rect(x: Double, y: Double, w: Double, h: Double)\n   override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise:
Boolean /* = definedExternally */)\n   override fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)\n}\n\n/**\n * Exposes the JavaScript [ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext) to Kotlin\n */\npublic external abstract class ImageBitmapRenderingContext {\n   open val canvas: HTMLCanvasElement\n   fun transferFromImageBitmap(bitmap: ImageBitmap?)\n}\n\npublic external interface ImageBitmapRenderingContextSettings {\n   var alpha: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n   val o = js(\"({})\")\n   o[\"alpha\"] = alpha\n   return o\n}\n/**\n
 * Exposes the JavaScript [CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\n */\npublic external abstract class CustomElementRegistry {\n   fun define(name: String, constructor: () -> dynamic,

options: ElementDefinitionOptions = definedExternally)\n   fun get(name: String): Any?\n   fun whenDefined(name: String): Promise<Unit>\n}\n\npublic external interface ElementDefinitionOptions {\n   var extends: String?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ElementDefinitionOptions(extends: String? = undefined): ElementDefinitionOptions {\n   val o = js(\"({})\")\n   o[\"extends\"] = extends\n   return o\n}\n\npublic external interface ElementContentEditable {\n   var contentEditable: String\n   val isContentEditable: Boolean\n}\n\n/**\n * Exposes the JavaScript [DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\n */\npublic external abstract class DataTransfer {\n   open var dropEffect: String\n   open var effectAllowed: String\n   open val items: DataTransferItemList\n   open val types: Array<out String>\n   open val files: FileList\n   fun setDragImage(image: Element, x: Int, y: Int)\n   fun getData(format: String): String\n   fun setData(format: String, data: String)\n   fun clearData(format: String = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\n */\npublic external abstract class DataTransferItemList {\n   open val length: Int\n   fun add(data: String, type: String): DataTransferItem?\n   fun add(data: File): DataTransferItem?\n   fun remove(index: Int)\n   fun clear()\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\n */\npublic external abstract class DataTransferItem {\n   open val kind: String\n   open val type: String\n   fun getAsString(_callback: ((String) -> Unit)?)\n   fun getAsFile(): File?\n}\n\n/**\n * Exposes the JavaScript [DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent) to Kotlin\n */\npublic external open class DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n   open val dataTransfer: DataTransfer?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface DragEventInit : MouseEventInit {\n   var dataTransfer: DataTransfer? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DragEventInit(dataTransfer: DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): DragEventInit {\n   val o = js(\"({})\")\n   o[\"dataTransfer\"] = dataTransfer\n   o[\"screenX\"] = screenX\n   o[\"screenY\"] = screenY\n   o[\"clientX\"] = clientX\n   o[\"clientY\"] = clientY\n   o[\"button\"] = button\n   o[\"buttons\"] = buttons\n   o[\"relatedTarget\"] = relatedTarget\n   o[\"region\"] = region\n   o[\"ctrlKey\"] = ctrlKey\n   o[\"shiftKey\"] = shiftKey\n   o[\"altKey\"] = altKey\n   o[\"metaKey\"] = metaKey\n   o[\"modifierAltGraph\"] = modifierAltGraph\n   o[\"modifierCapsLock\"] = modifierCapsLock\n   o[\"modifierFn\"] = modifierFn\n   o[\"modifierFnLock\"] = modifierFnLock\n   o[\"modifierHyper\"] = modifierHyper\n   o[\"modifierNumLock\"] = modifierNumLock\n   o[\"modifierScrollLock\"] = modifierScrollLock\n   o[\"modifierSuper\"] = modifierSuper\n   o[\"modifierSymbol\"] = modifierSymbol\n   o[\"modifierSymbolLock\"] = modifierSymbolLock\n   o[\"view\"] = view\n   o[\"detail\"] = detail\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return

o\n}\n\n/**\n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to Kotlin\n */\npublic external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers, WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance, UnionMessagePortOrWindowProxy {\n   open val window: Window\n   open val self: Window\n   open val document: Document\n   open var name: String\n   open val location: Location\n   open val history: History\n   open val customElements: CustomElementRegistry\n   open val locationbar: BarProp\n   open val menubar: BarProp\n   open val personalbar: BarProp\n   open val scrollbars: BarProp\n   open val statusbar: BarProp\n   open val toolbar: BarProp\n   open var status: String\n   open val closed: Boolean\n   open val frames: Window\n   open val length: Int\n   open val top: Window\n   open var opener: Any?\n   open val parent: Window\n   open val frameElement: Element?\n

    open val navigator: Navigator\n   open val applicationCache: ApplicationCache\n   open val external: External\n   open val screen: Screen\n   open val innerWidth: Int\n   open val innerHeight: Int\n   open val scrollX: Double\n   open val pageXOffset: Double\n   open val scrollY: Double\n   open val pageYOffset: Double\n   open val screenX: Int\n   open val screenY: Int\n   open val outerWidth: Int\n   open val outerHeight: Int\n   open val devicePixelRatio: Double\n   fun close()\n   fun stop()\n   fun focus()\n   fun blur()\n   fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally): Window?\n   fun alert()\n   fun alert(message: String)\n   fun confirm(message: String = definedExternally): Boolean\n   fun prompt(message: String = definedExternally, default: String = definedExternally): String?\n   fun print()\n   fun requestAnimationFrame(callback: (Double) -> Unit): Int\n   fun cancelAnimationFrame(handle: Int)\n   fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n   fun captureEvents()\n   fun releaseEvents()\n   fun matchMedia(query: String): MediaQueryList\n   fun moveTo(x: Int, y: Int)\n   fun moveBy(x: Int, y: Int)\n   fun resizeTo(x: Int, y: Int)\n   fun resizeBy(x: Int, y: Int)\n   fun scroll(options: ScrollToOptions = definedExternally)\n   fun scroll(x: Double, y: Double)\n   fun scrollTo(options: ScrollToOptions = definedExternally)\n   fun scrollTo(x: Double, y: Double)\n   fun scrollBy(options: ScrollToOptions = definedExternally)\n   fun scrollBy(x: Double, y: Double)\n   fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Window.get(name: String): dynamic = asDynamic()[name]\n\npublic external abstract class BarProp {\n   open val visible: Boolean\n}\n\n/**\n * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n */\npublic external abstract class History {\n   open val length: Int\n   open var scrollRestoration: ScrollRestoration\n   open val state: Any?\n   fun go(delta: Int = definedExternally)\n   fun back()\n   fun forward()\n   fun pushState(data: Any?, title: String, url: String? = definedExternally)\n   fun replaceState(data: Any?, title: String, url: String? = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n */\npublic external abstract class Location {\n   open var href: String\n   open val origin: String\n   open var protocol: String\n   open var host: String\n   open var hostname: String\n   open var port: String\n   open var pathname: String\n   open var search: String\n   open var hash: String\n   open val ancestorOrigins: Array<out String>\n   fun assign(url: String)\n   fun replace(url: String)\n   fun reload()\n}\n\n/**\n * Exposes the JavaScript [PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n */\npublic external open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n   open val state: Any?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface PopStateEventInit : EventInit {\n   var state: Any? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\n   val o = js(\"({})\")\n   o[\"state\"] = state\n   o[\"bubbles\"] = bubbles\n

o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n */\npublic external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {\n   open val oldURL: String\n   open val newURL: String\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface HashChangeEventInit : EventInit {\n   var oldURL: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var newURL: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HashChangeEventInit(oldURL: String?

= \"\", newURL: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): HashChangeEventInit {\n   val o = js(\"({})\")\n   o[\"oldURL\"] = oldURL\n   o[\"newURL\"] = newURL\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\n */\npublic external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {\n   open val persisted: Boolean\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface PageTransitionEventInit : EventInit {\n   var persisted: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PageTransitionEventInit {\n   val o = js(\"({})\")\n   o[\"persisted\"] = persisted\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n */\npublic external open class BeforeUnloadEvent : Event {\n   var returnValue: String\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external abstract class ApplicationCache : EventTarget {\n   open val status: Short\n   open var onchecking: ((Event) -> dynamic)?\n   open var onerror: ((Event) -> dynamic)?\n   open var onnoupdate: ((Event) -> dynamic)?\n   open var ondownloading: ((Event) -> dynamic)?\n   open var onprogress: ((ProgressEvent) -> dynamic)?\n   open var onupdateready: ((Event) -> dynamic)?\n   open var oncached: ((Event) -> dynamic)?\n   open var onobsolete: ((Event) -> dynamic)?\n   fun update()\n   fun abort()\n   fun swapCache()\n\n   companion object {\n   val UNCACHED: Short\n   val IDLE: Short\n   val CHECKING: Short\n   val DOWNLOADING: Short\n   val UPDATEREADY: Short\n   val OBSOLETE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n */\npublic external interface NavigatorOnLine {\n   val onLine: Boolean\n}\n\n/**\n * Exposes the JavaScript [ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n */\npublic external open class ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally)

: Event {\n   open val message: String\n   open val filename: String\n   open val lineno: Int\n   open val colno: Int\n   open val error: Any?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface ErrorEventInit : EventInit {\n   var message: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var filename: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var lineno: Int? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var colno: Int? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var error: Any? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic

 inline fun ErrorEventInit(message: String? = \"\", filename: String? = \"\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n   val o = js(\"({})\")\n   o[\"message\"] = message\n   o[\"filename\"] = filename\n   o[\"lineno\"] = lineno\n o[\"colno\"] = colno\n   o[\"error\"] = error\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n */\npublic external open class PromiseRejectionEvent(type: String, eventInitDict: PromiseRejectionEventInit) : Event {\n   open val promise: Promise<Any?>\n   open val reason: Any?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface PromiseRejectionEventInit : EventInit {\n   var promise: Promise<Any?>?\n   var reason: Any?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun PromiseRejectionEventInit(promise: Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PromiseRejectionEventInit {\n   val o = js(\"({})\")\n   o[\"promise\"] = promise\n o[\"reason\"] = reason\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n */\npublic external interface GlobalEventHandlers {\n   var onabort: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value)

 = definedExternally\n   var onblur: ((FocusEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var oncancel: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var oncanplay: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var oncanplaythrough: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onchange: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onclick: ((MouseEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onclose: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var oncontextmenu: ((MouseEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var oncuechange:

 ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ondblclick: ((MouseEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ondrag: ((DragEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ondragend: ((DragEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ondragenter: ((DragEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ondragexit: ((DragEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ondragleave: ((DragEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ondragover: ((DragEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ondragstart: ((DragEvent) -> dynamic)?\n

        get() = definedExternally\n   set(value) = definedExternally\n   var ondrop: ((DragEvent) -> dynamic)?\n get() = definedExternally\n   set(value) = definedExternally\n   var ondurationchange: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onemptied: ((Event) -> dynamic)?\n get() = definedExternally\n   set(value) = definedExternally\n   var onended: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onfocus: ((FocusEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var oninput: ((InputEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var oninvalid: ((Event) ->

dynamic)?\n   get() = definedExternally\n

    set(value) = definedExternally\n   var onkeydown: ((KeyboardEvent) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var onkeypress: ((KeyboardEvent) -> dynamic)?\n
get() = definedExternally\n   set(value) = definedExternally\n   var onkeyup: ((KeyboardEvent) -> dynamic)?\n
  get() = definedExternally\n   set(value) = definedExternally\n   var onload: ((Event) -> dynamic)?\n   get()
= definedExternally\n   set(value) = definedExternally\n   var onloadeddata: ((Event) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var onloadedmetadata: ((Event) -> dynamic)?\n
get() = definedExternally\n   set(value) = definedExternally\n   var onloadend: ((Event) -> dynamic)?\n   get()
= definedExternally\n   set(value) = definedExternally\n   var onloadstart: ((ProgressEvent) -> dynamic)?\n
get() = definedExternally\n   set(value)

 = definedExternally\n   var onmousedown: ((MouseEvent) -> dynamic)?\n   get() = definedExternally\n
set(value) = definedExternally\n   var onmouseenter: ((MouseEvent) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var onmouseleave: ((MouseEvent) -> dynamic)?\n
get() = definedExternally\n   set(value) = definedExternally\n   var onmousemove: ((MouseEvent) ->
dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onmouseout:
((MouseEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var
onmouseover: ((MouseEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n
var onmouseup: ((MouseEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) =
definedExternally\n   var onwheel: ((WheelEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) =
definedExternally\n

    var onpause: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var
onplay: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var
onplaying: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var
onprogress: ((ProgressEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n
var onratechange: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n
var onreset: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var
onresize: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var
onscroll: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var
onseeked: ((Event) -> dynamic)?\n   get()

 = definedExternally\n   set(value) = definedExternally\n   var onseeking: ((Event) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var onselect: ((Event) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var onshow: ((Event) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var onstalled: ((Event) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var onsubmit: ((Event) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var onsuspend: ((Event) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var ontimeupdate: ((Event) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var ontoggle: ((Event) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n

    var onvolumechange: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) =
definedExternally\n   var onwaiting: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) =
definedExternally\n   var ongotpointercapture: ((PointerEvent) -> dynamic)?\n   get() = definedExternally\n
set(value) = definedExternally\n   var onlostpointercapture: ((PointerEvent) -> dynamic)?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var onpointerdown: ((PointerEvent) -> dynamic)?\n
get() = definedExternally\n   set(value) = definedExternally\n   var onpointermove: ((PointerEvent) ->
dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onpointerup:
((PointerEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var
onpointercancel: ((PointerEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) =
definedExternally\n

var onpointerover: ((PointerEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onpointerout: ((PointerEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onpointerenter: ((PointerEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onpointerleave: ((PointerEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript [WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n */\npublic external interface WindowEventHandlers {\n   var onafterprint: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onbeforeprint: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onbeforeunload: ((BeforeUnloadEvent) -> String?)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onhashchange: ((HashChangeEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onlanguagechange: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onmessage: ((MessageEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onoffline: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ononline: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onpagehide: ((PageTransitionEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onpageshow: ((PageTransitionEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onpopstate: ((PopStateEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onrejectionhandled: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onstorage: ((StorageEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onunload: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n   var oncopy: ((ClipboardEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var oncut: ((ClipboardEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   var onpaste: ((ClipboardEvent) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript [WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope) to Kotlin\n */\npublic external interface WindowOrWorkerGlobalScope {\n   val origin: String\n   val caches: CacheStorage\n   fun btoa(data: String): String\n   fun atob(data: String): String\n   fun setTimeout(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n   fun clearTimeout(handle: Int = definedExternally)\n   fun setInterval(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n   fun clearInterval(handle: Int = definedExternally)\n   fun createImageBitmap(image: ImageBitmapSource, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n   fun createImageBitmap(image: ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n   fun fetch(input: dynamic, init: RequestInit = definedExternally): Promise<Response>\n}\n\n/**\n * Exposes the JavaScript [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n */\npublic external abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {\n   open val clipboard: Clipboard\n   open val mediaDevices: MediaDevices\n   open val maxTouchPoints: Int\n   open val serviceWorker: ServiceWorkerContainer\n   fun requestMediaKeySystemAccess(keySystem: String, supportedConfigurations: Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>\n   fun getUserMedia(constraints: MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n   fun vibrate(pattern: dynamic): Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n */\npublic external interface

NavigatorID {\n   val appCodeName: String\n   val appName: String\n   val appVersion: String\n   val platform: String\n   val product: String\n   val productSub: String\n   val userAgent: String\n   val vendor: String\n   val vendorSub: String\n   val oscpu: String\n   fun taintEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n */\npublic external interface NavigatorLanguage {\n   val language: String\n   val languages: Array<out String>\n}\n\npublic external interface NavigatorContentUtils {\n   fun registerProtocolHandler(scheme: String, url: String, title: String)\n   fun registerContentHandler(mimeType: String, url: String, title: String)\n   fun isProtocolHandlerRegistered(scheme: String, url: String): String\n   fun isContentHandlerRegistered(mimeType: String, url: String): String\n   fun unregisterProtocolHandler(scheme: String, url: String)\n   fun unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n   val cookieEnabled: Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n */\npublic external interface NavigatorPlugins {\n   val plugins: PluginArray\n   val mimeTypes: MimeTypeArray\n   fun javaEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n */\npublic external abstract class PluginArray : ItemArrayLike<Plugin> {\n   fun refresh(reload: Boolean = definedExternally)\n   override fun item(index: Int): Plugin?\n   fun namedItem(name: String): Plugin?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n */\npublic external abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n   override fun item(index: Int): MimeType?\n   fun namedItem(name: String): MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n */\npublic external abstract class Plugin : ItemArrayLike<MimeType> {\n   open val name: String\n   open val description: String\n   open val filename: String\n   override fun item(index: Int): MimeType?\n   fun namedItem(name: String): MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(index: Int): MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(name: String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n */\npublic external abstract class MimeType {\n   open val type: String\n   open val description: String\n   open val suffixes: String\n   open val enabledPlugin: Plugin\n}\n\n/**\n * Exposes the JavaScript [ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n */\npublic external abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n   open val width: Int\n   open val height: Int\n   fun close()\n}\n\npublic external interface ImageBitmapOptions {\n   var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */\n   get() = definedExternally\n   set(value) = definedExternally\n   var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT */\n   get() = definedExternally\n   set(value) = definedExternally\n   var colorSpaceConversion: ColorSpaceConversion? /* = ColorSpaceConversion.DEFAULT */\n   get() = definedExternally\n   set(value) = definedExternally\n   var resizeWidth: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n   var resizeHeight: Int?\n

get() = definedExternally\n   set(value) = definedExternally\n   var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha: PremultiplyAlpha? = PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? = ColorSpaceConversion.DEFAULT, resizeWidth: Int? = undefined, resizeHeight: Int? = undefined, resizeQuality: ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\n   val o = js(\"({})\")\n   o[\"imageOrientation\"] = imageOrientation\n   o[\"premultiplyAlpha\"] = premultiplyAlpha\n   o[\"colorSpaceConversion\"] = colorSpaceConversion\n   o[\"resizeWidth\"] = resizeWidth\n   o[\"resizeHeight\"] = resizeHeight\n   o[\"resizeQuality\"] = resizeQuality\n   return o\n}\n\n/**\n * Exposes the JavaScript [MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\n */\npublic external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\n   open val data: Any?\n   open val origin: String\n   open val lastEventId: String\n   open val source: UnionMessagePortOrWindowProxy?\n   open val ports: Array<out MessagePort>\n   fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface MessageEventInit : EventInit {\n   var data: Any? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var origin: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var lastEventId: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var source: UnionMessagePortOrWindowProxy? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var ports: Array<MessagePort>? /* = arrayOf() */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MessageEventInit(data: Any? = null, origin: String? = \"\", lastEventId: String? = \"\", source: UnionMessagePortOrWindowProxy? = null, ports: Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MessageEventInit {\n   val o = js(\"({})\")\n   o[\"data\"] = data\n   o[\"origin\"] = origin\n   o[\"lastEventId\"] = lastEventId\n   o[\"source\"] = source\n   o[\"ports\"] = ports\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n */\npublic external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\n   open val url: String\n   open val withCredentials: Boolean\n   open val readyState: Short\n   var onopen: ((Event) -> dynamic)?\n   var onmessage: ((MessageEvent) -> dynamic)?\n   var onerror: ((Event) -> dynamic)?\n   fun close()\n\n   companion object {\n   val CONNECTING: Short\n   val OPEN: Short\n   val CLOSED: Short\n   }\n}\n\npublic external interface EventSourceInit {\n   var withCredentials: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {\n   val o = js(\"({})\")\n   o[\"withCredentials\"] = withCredentials\n   return o\n}\n\n/**\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin\n */\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {\n   open val url: String\n   open val readyState: Short\n   open val bufferedAmount: Number\n   var onopen: ((Event) -> dynamic)?\n   var onerror: ((Event) -> dynamic)?\n   var onclose: ((Event) -> dynamic)?\n   open val extensions: String\n   open val protocol: String\n   var onmessage: ((MessageEvent) -> dynamic)?\n   var binaryType: BinaryType\n   fun close(code: Short =

definedExternally, reason: String = definedExternally)\n   fun send(data: String)\n   fun send(data: Blob)\n   fun send(data: ArrayBuffer)\n   fun send(data: ArrayBufferView)\n\n   companion object {\n   val CONNECTING: Short\n   val OPEN: Short\n   val CLOSING: Short\n   val CLOSED: Short   }\n}\n\n/**\n * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n */\npublic external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally)

 : Event {\n   open val wasClean: Boolean\n   open val code: Short\n   open val reason: String\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short   }\n}\n\npublic external interface CloseEventInit : EventInit {\n   var wasClean: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var code: Short? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var reason: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CloseEventInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CloseEventInit {\n   val o = js(\"({})\")\n   o[\"wasClean\"]

 = wasClean\n   o[\"code\"] = code\n   o[\"reason\"] = reason\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n */\npublic external open class MessageChannel {\n   open val port1: MessagePort\n   open val port2: MessagePort\n}\n\n/**\n * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n */\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n   open var onmessage: ((MessageEvent) -> dynamic)?\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n   fun start()\n   fun close()\n}\n\n/**\n * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel)

 to Kotlin\n */\npublic external open class BroadcastChannel(name: String) : EventTarget {\n   open val name: String\n   var onmessage: ((MessageEvent) -> dynamic)?\n   fun postMessage(message: Any?)\n   fun close()\n}\n\n/**\n * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n */\npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {\n   open val self: WorkerGlobalScope\n   open val location: WorkerLocation\n   open val navigator: WorkerNavigator\n   open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n   open var onlanguagechange: ((Event) -> dynamic)?\n   open var onoffline: ((Event) -> dynamic)?\n   open var ononline: ((Event) -> dynamic)?\n   open var onrejectionhandled: ((Event) -> dynamic)?\n   open var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n   fun importScripts(vararg urls: String)\n}\n\n/**\n * Exposes the JavaScript

 the JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin\n */\npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n   open var onmessage: ((MessageEvent) -> dynamic)?\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n   fun close()\n}\n\n/**\n * Exposes the JavaScript [SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin\n */\npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n   open val name: String\n   open val applicationCache: ApplicationCache\n   open var onconnect: ((Event) -> dynamic)?\n   fun close()\n}\n\n/**\n * Exposes the JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n */\npublic external interface AbstractWorker {\n   var onerror: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value)

 = definedExternally\n}\n\n/**\n * Exposes the JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n */\npublic external open class Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n   var

onmessage: ((MessageEvent) -> dynamic)?\n   override var onerror: ((Event) -> dynamic)?\n   fun terminate()\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\npublic external interface WorkerOptions {\n   var type: WorkerType? /* = WorkerType.CLASSIC */\n   get() = definedExternally\n   set(value) = definedExternally\n   var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials?

 = RequestCredentials.OMIT): WorkerOptions {\n   val o = js(\"({})\")\n   o[\"type\"] = type\n   o[\"credentials\"] = credentials\n   return o\n}\n\n/**\n * Exposes the JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n */\npublic external open class SharedWorker(scriptURL: String, name: String = definedExternally, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n   open val port: MessagePort\n   override var onerror: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript [NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin\n */\npublic external interface NavigatorConcurrentHardware {\n   val hardwareConcurrency: Number\n}\n\n/**\n * Exposes the JavaScript [WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n */\npublic external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {\n   open val serviceWorker: ServiceWorkerContainer\n}\n\n/**\n * Exposes the JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n */\npublic external abstract class WorkerLocation {\n   open val href: String\n   open val origin: String\n   open val protocol: String\n   open val host: String\n   open val hostname: String\n   open val port: String\n   open val pathname: String\n   open val search: String\n   open val hash: String\n}\n\n/**\n * Exposes the JavaScript [Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n */\npublic external abstract class Storage {\n   open val length: Int\n   fun key(index: Int): String?\n   fun removeItem(key: String)\n   fun clear()\n   fun getItem(key: String): String?\n   fun setItem(key: String, value: String)\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.get(key: String): String? = asDynamic()[key]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.set(key: String, value: String) { asDynamic()[key] = value }\n\n/**\n * Exposes the JavaScript [WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n */\npublic external interface WindowSessionStorage {\n   val sessionStorage: Storage\n}\n\n/**\n * Exposes the JavaScript [WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\n */\npublic external interface WindowLocalStorage {\n   val localStorage: Storage\n}\n\n/**\n * Exposes the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n */\npublic external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\n   open val key: String?\n   open val oldValue: String?\n   open val newValue: String?\n   open val url: String\n   open val storageArea: Storage?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface StorageEventInit : EventInit {\n   var key: String? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var oldValue: String? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var newValue: String? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var url: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var storageArea: Storage? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun StorageEventInit(key:

String? = null, oldValue: String? = null, newValue: String? = null, url: String? = \"\", storageArea: Storage? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\n   val o = js(\"({})\")\n   o[\"key\"] = key\n   o[\"oldValue\"] = oldValue\n   o[\"newValue\"] = newValue\n   o[\"url\"] = url\n   o[\"storageArea\"] = storageArea\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n   return o\n}\n\npublic external abstract class HTMLAppletElement : HTMLElement {\n   open var align: String\n   open var alt: String\n   open var archive: String\n   open var code: String\n   open var codeBase: String\n   open var height: String\n   open var hspace: Int\n   open var name: String\n   open var _object: String\n   open var vspace: Int\n   open var width: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin\n */\npublic external abstract class HTMLMarqueeElement : HTMLElement {\n   open var behavior: String\n   open var bgColor: String\n   open var direction: String\n   open var height: String\n   open var hspace: Int\n   open var loop: Int\n   open var scrollAmount: Int\n   open var scrollDelay: Int\n   open var trueSpeed: Boolean\n   open var vspace: Int\n   open var width: String\n   open var onbounce: ((Event) -> dynamic)?\n   open var onfinish: ((Event) -> dynamic)?\n   open var onstart: ((Event) -> dynamic)?\n   fun start()\n   fun stop()\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\n */\npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {\n   open var cols: String\n   open var rows: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class HTMLFrameElement : HTMLElement {\n   open var name: String\n   open var scrolling: String\n   open var src: String\n   open var frameBorder: String\n   open var longDesc: String\n   open var noResize: Boolean\n   open val contentDocument: Document?\n   open val contentWindow: Window?\n   open var marginHeight: String\n   open

var marginWidth: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class HTMLDirectoryElement : HTMLElement {\n   open var compact: Boolean\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin\n */\npublic external abstract class HTMLFontElement : HTMLElement {\n   open var color: String\n   open var face: String\n   open var size: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external interface External {\n   fun AddSearchProvider()\n   fun IsSearchProviderInstalled()\n}\n\npublic external interface EventInit {\n   var bubbles: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var cancelable: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var composed: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n   val o = js(\"({})\")\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n */\npublic external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\n   open val detail: Any?\n   fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail: Any?)\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface CustomEventInit : EventInit {\n   var detail: Any? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic

 inline fun CustomEventInit(detail: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\n   val o = js(\"({})\")\n   o[\"detail\"] = detail\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\npublic external interface EventListenerOptions {\n   var capture: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun EventListenerOptions(capture: Boolean? = false): EventListenerOptions {\n   val o = js(\"({})\")\n   o[\"capture\"] = capture\n   return o\n}\n\npublic external interface AddEventListenerOptions : EventListenerOptions {\n   var passive: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var once: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun AddEventListenerOptions(passive: Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\n   val o = js(\"({})\")\n   o[\"passive\"] = passive\n   o[\"once\"] = once\n   o[\"capture\"] = capture\n   return o\n}\n\npublic external interface NonElementParentNode {\n   fun getElementById(elementId: String): Element?\n}\n\n/**\n * Exposes the JavaScript [DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n */\npublic external interface DocumentOrShadowRoot {\n   val fullscreenElement: Element?\n   get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin */\npublic external interface ParentNode {\n   val children: HTMLCollection\n   val firstElementChild: Element?\n   get() = definedExternally\n   val lastElementChild: Element?\n   get() = definedExternally\n   val childElementCount: Int\n   fun prepend(vararg nodes: dynamic)\n   fun append(vararg nodes: dynamic)\n   fun querySelector(selectors: String): Element?\n   fun querySelectorAll(selectors: String): NodeList\n}\n\n/**\n * Exposes the JavaScript [NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to Kotlin\n */\npublic external interface NonDocumentTypeChildNode {\n   val previousElementSibling: Element?\n   get() = definedExternally\n   val nextElementSibling: Element?\n   get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n */\npublic external interface ChildNode {\n   fun before(vararg nodes: dynamic)\n   fun after(vararg nodes: dynamic)\n   fun replaceWith(vararg nodes: dynamic)\n   fun remove()\n}\n\n/**\n * Exposes the JavaScript [Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin */\npublic external interface Slotable {\n   val assignedSlot: HTMLSlotElement?\n   get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin */\npublic external abstract class NodeList : ItemArrayLike<Node> {\n   override fun item(index: Int): Node?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun NodeList.get(index: Int): Node? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin */\npublic external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {\n   override fun item(index: Int): Element?\n   fun namedItem(name: String): Element?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic

 inline operator fun HTMLCollection.get(index: Int): Element? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(name: String): Element? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript

[MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin\n */\npublic external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {\n   fun observe(target: Node, options: MutationObserverInit = definedExternally)\n   fun disconnect()\n   fun takeRecords(): Array<MutationRecord>\n}\n\n/**\n * Exposes the JavaScript [MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\n */\npublic external interface MutationObserverInit {\n   var childList: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n

    var attributes: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var characterData: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var subtree: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var attributeOldValue: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var characterDataOldValue: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var attributeFilter: Array<String>?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter: Array<String>? = undefined): MutationObserverInit {\n   val o = js(\"({})\")\n   o[\"childList\"] = childList\n   o[\"attributes\"] = attributes\n   o[\"characterData\"] = characterData\n   o[\"subtree\"] = subtree\n   o[\"attributeOldValue\"] = attributeOldValue\n   o[\"characterDataOldValue\"] = characterDataOldValue\n   o[\"attributeFilter\"] = attributeFilter\n   return o\n}\n\n/**\n * Exposes the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin\n */\npublic external abstract class MutationRecord {\n   open val type: String\n   open val target: Node\n   open val addedNodes: NodeList\n   open val removedNodes: NodeList\n   open val previousSibling: Node?\n   open val nextSibling: Node?\n   open val attributeName: String?\n   open val attributeNamespace: String?\n   open val oldValue: String?\n}\n\n/**\n * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin\n */\npublic external abstract class Node : EventTarget {\n   open val nodeType: Short\n   open val nodeName: String\n   open val baseURI: String\n   open val isConnected: Boolean\n   open val ownerDocument: Document?\n   open val parentNode: Node?\n   open val parentElement: Element?\n   open val childNodes: NodeList\n   open val firstChild: Node?\n   open val lastChild: Node?\n   open val previousSibling: Node?\n   open val nextSibling: Node?\n   open var nodeValue: String?\n   open var textContent: String?\n   fun getRootNode(options: GetRootNodeOptions = definedExternally): Node\n   fun hasChildNodes(): Boolean\n   fun normalize()\n   fun cloneNode(deep: Boolean = definedExternally): Node\n   fun isEqualNode(otherNode: Node?): Boolean\n   fun isSameNode(otherNode: Node?): Boolean\n   fun compareDocumentPosition(other: Node): Short\n   fun contains(other: Node?): Boolean\n   fun lookupPrefix(namespace: String?): String?\n   fun lookupNamespaceURI(prefix: String?): String?\n   fun isDefaultNamespace(namespace: String?): Boolean\n   fun insertBefore(node: Node, child: Node?): Node\n   fun appendChild(node: Node): Node\n   fun replaceChild(node: Node, child: Node): Node\n   fun removeChild(child: Node): Node\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n

val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external interface GetRootNodeOptions {\n   var composed: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun GetRootNodeOptions(composed: Boolean? = false): GetRootNodeOptions {\n   val o = js(\"({})\")\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin\n */\npublic external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers, NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {\n   open val implementation: DOMImplementation\n   open val URL: String\n   open val documentURI: String\n   open val origin: String\n   open val compatMode: String\n   open val characterSet: String\n   open val

charset: String\n   open val inputEncoding: String\n   open val contentType: String\n   open val doctype: DocumentType?\n   open val documentElement: Element?\n   open val location: Location?\n   var domain: String\n   open val referrer: String\n   var cookie: String\n   open val lastModified: String\n   open val readyState: DocumentReadyState\n   var title: String\n   var dir: String\n   var body: HTMLElement?\n   open val head: HTMLHeadElement?\n   open val images: HTMLCollection\n   open val embeds: HTMLCollection\n   open val plugins: HTMLCollection\n   open val links: HTMLCollection\n   open val forms: HTMLCollection\n   open val scripts: HTMLCollection\n   open val currentScript: HTMLOrSVGScriptElement?\n   open val defaultView: Window?\n   open val activeElement: Element?\n   var designMode: String\n   var onreadystatechange: ((Event) -> dynamic)?\n   var fgColor: String\n   var linkColor: String\n   var vlinkColor: String\n   var alinkColor: String\n   var bgColor: String\n   open val anchors: HTMLCollection\n   open val applets: HTMLCollection\n   open val all: HTMLAllCollection\n   open val scrollingElement: Element?\n   open val styleSheets: StyleSheetList\n   open val rootElement: SVGSVGElement?\n   open val fullscreenEnabled: Boolean\n   open val fullscreen: Boolean\n   var onfullscreenchange: ((Event) -> dynamic)?\n   var onfullscreenerror: ((Event) -> dynamic)?\n   override var onabort: ((Event) -> dynamic)?\n   override var onblur: ((FocusEvent) -> dynamic)?\n   override var oncancel: ((Event) -> dynamic)?\n   override var oncanplay: ((Event) -> dynamic)?\n   override var oncanplaythrough: ((Event) -> dynamic)?\n   override var onchange: ((Event) -> dynamic)?\n   override var onclick: ((MouseEvent) -> dynamic)?\n   override var onclose: ((Event) -> dynamic)?\n   override var oncontextmenu: ((MouseEvent) -> dynamic)?\n   override var oncuechange: ((Event) -> dynamic)?\n   override var ondblclick: ((MouseEvent) -> dynamic)?\n   override var ondrag: ((DragEvent) -> dynamic)?\n   override var ondragend: ((DragEvent) -> dynamic)?\n   override var ondragenter: ((DragEvent) -> dynamic)?\n   override var ondragexit: ((DragEvent) -> dynamic)?\n   override var ondragleave: ((DragEvent) -> dynamic)?\n   override var ondragover: ((DragEvent) -> dynamic)?\n   override var ondragstart: ((DragEvent) -> dynamic)?\n   override var ondrop: ((DragEvent) -> dynamic)?\n   override var ondurationchange: ((Event) -> dynamic)?\n   override var onemptied: ((Event) -> dynamic)?\n   override var onended: ((Event) -> dynamic)?\n   override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n   override var onfocus: ((FocusEvent) -> dynamic)?\n   override var oninput: ((InputEvent) -> dynamic)?\n   override var oninvalid: ((Event) -> dynamic)?\n   override var onkeydown: ((KeyboardEvent) -> dynamic)?\n   override var onkeypress: ((KeyboardEvent) -> dynamic)?\n   override var onkeyup: ((KeyboardEvent) -> dynamic)?\n   override var onload: ((Event) -> dynamic)?\n   override var onloadeddata: ((Event) -> dynamic)?\n   override var onloadedmetadata: ((Event) -> dynamic)?\n   override var onloadend: ((Event) -> dynamic)?\n   override var onloadstart: ((ProgressEvent) -> dynamic)?\n   override var onmousedown: ((MouseEvent) -> dynamic)?\n   override var onmouseenter: ((MouseEvent) -> dynamic)?\n   override var onmouseleave: ((MouseEvent) -> dynamic)?\n   override var onmousemove: ((MouseEvent) -> dynamic)?\n   override var onmouseout: ((MouseEvent) -> dynamic)?\n   override var onmouseover: ((MouseEvent) -> dynamic)?\n   override var onmouseup: ((MouseEvent) -> dynamic)?\n   override var onwheel: ((WheelEvent) -> dynamic)?\n   override var onpause: ((Event) -> dynamic)?\n   override var onplay: ((Event) -> dynamic)?\n   override var onplaying: ((Event) -> dynamic)?\n   override var onprogress: ((ProgressEvent) -> dynamic)?\n   override var onratechange:

((Event) -> dynamic)?\n   override var onreset: ((Event) -> dynamic)?\n   override var onresize: ((Event) -> dynamic)?\n   override var onscroll: ((Event) -> dynamic)?\n   override var onseeked: ((Event) -> dynamic)?\n   override var onseeking: ((Event) -> dynamic)?\n   override var onselect: ((Event) -> dynamic)?\n   override var onshow: ((Event) -> dynamic)?\n   override var onstalled: ((Event) -> dynamic)?\n   override var onsubmit: ((Event) -> dynamic)?\n   override var onsuspend: ((Event) -> dynamic)?\n   override var ontimeupdate: ((Event) -> dynamic)?\n   override var ontoggle: ((Event) -> dynamic)?\n   override var onvolumechange: ((Event) -> dynamic)?\n   override var onwaiting: ((Event) -> dynamic)?\n   override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n   override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n   override var onpointerdown: ((PointerEvent) -> dynamic)?\n   override var onpointermove: ((PointerEvent) -> dynamic)?\n

override var onpointerup: ((PointerEvent) -> dynamic)?\n   override var onpointercancel: ((PointerEvent) -> dynamic)?\n   override var onpointerover: ((PointerEvent) -> dynamic)?\n   override var onpointerout: ((PointerEvent) -> dynamic)?\n   override var onpointerenter: ((PointerEvent) -> dynamic)?\n   override var onpointerleave: ((PointerEvent) -> dynamic)?\n   override var oncopy: ((ClipboardEvent) -> dynamic)?\n   override var oncut: ((ClipboardEvent) -> dynamic)?\n   override var onpaste: ((ClipboardEvent) -> dynamic)?\n   override val fullscreenElement: Element?\n   override val children: HTMLCollection\n   override val firstElementChild: Element?\n   override val lastElementChild: Element?\n   override val childElementCount: Int\n   fun getElementsByTagName(qualifiedName: String): HTMLCollection\n   fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n   fun getElementsByClassName(classNames: String): HTMLCollection\n   fun createElement(localName: String, options: ElementCreationOptions = definedExternally): Element\n   fun createElementNS(namespace: String?, qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n   fun createDocumentFragment(): DocumentFragment\n   fun createTextNode(data: String): Text\n   fun createCDATASection(data: String): CDATASection\n   fun createComment(data: String): Comment\n   fun createProcessingInstruction(target: String, data: String): ProcessingInstruction\n   fun importNode(node: Node, deep: Boolean = definedExternally): Node\n   fun adoptNode(node: Node): Node\n   fun createAttribute(localName: String): Attr\n   fun createAttributeNS(namespace: String?, qualifiedName: String): Attr\n   fun createEvent(`interface`: String): Event\n   fun createRange(): Range\n   fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n   fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): NodeIterator\n   fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker\n   fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n   fun getElementsByName(elementName: String): NodeList\n   fun open(type: String = definedExternally, replace: String = definedExternally): Document\n   fun open(url: String, name: String, features: String): Window\n   fun close()\n   fun write(vararg text: String)\n   fun writeln(vararg text: String)\n   fun hasFocus(): Boolean\n   fun execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally): Boolean\n   fun queryCommandEnabled(commandId: String): Boolean\n   fun queryCommandIndeterm(commandId: String): Boolean\n   fun queryCommandState(commandId: String): Boolean\n   fun queryCommandSupported(commandId: String): Boolean\n   fun queryCommandValue(commandId: String): String\n   fun clear()\n   fun captureEvents()\n   fun releaseEvents()\n   fun elementFromPoint(x: Double, y: Double): Element?\n   fun elementsFromPoint(x: Double, y: Double): Array<Element>\n   fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n   fun createTouch(view: Window, target: EventTarget, identifier: Int, pageX: Int, pageY: Int, screenX: Int, screenY: Int): Touch\n   fun createTouchList(vararg touches: Touch): TouchList\n   fun exitFullscreen(): Promise<Unit>\n   override fun getElementById(elementId: String): Element?\n   override fun prepend(vararg nodes: dynamic)\n   override fun append(vararg nodes: dynamic)\n   override fun querySelector(selectors: String): Element?\n   override fun querySelectorAll(selectors: String): NodeList\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n   override

fun convertQuadFromNode(quad:

 dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n   override

fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =

definedExternally */): DOMQuad\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic,

options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n   companion object {\n   val

ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val

CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE:

Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val

DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val

DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val

DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n

   val DOCUMENT_POSITION_FOLLOWING:

 Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val

DOCUMENT_POSITION_CONTAINED_BY: Short\n   val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n

}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Document.get(name: String):

dynamic = asDynamic()[name]\n\n/**\n * Exposes the JavaScript

[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n */\npublic external

open class XMLDocument : Document {\n   companion object {\n   val ELEMENT_NODE: Short\n   val

ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val

ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val

PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val

DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val

DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n

    val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING:

Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val

DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n

 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external interface

ElementCreationOptions {\n   var `is`: String?\n   get() = definedExternally\n   set(value) =

definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",

\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ElementCreationOptions(`is`: String?

= undefined): ElementCreationOptions {\n   val o = js(\"({})\")\n   o[\"is\"] = `is`\n   return o\n}\n\n/**\n *

Exposes the JavaScript

[DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\n

*/\npublic external abstract class DOMImplementation {\n   fun createDocumentType(qualifiedName: String,

publicId: String, systemId: String):

 DocumentType\n   fun createDocument(namespace: String?, qualifiedName: String, doctype: DocumentType? =

definedExternally): XMLDocument\n   fun createHTMLDocument(title: String = definedExternally): Document\n

fun hasFeature(): Boolean\n}\n\n/**\n * Exposes the JavaScript

[DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to Kotlin\n */\npublic external

abstract class DocumentType : Node, ChildNode {\n   open val name: String\n   open val publicId: String\n   open

val systemId: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE:

Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val

ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val

PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val

DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val

DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val

DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment) to Kotlin\n */\npublic external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n   override val children: HTMLCollection\n   override val firstElementChild: Element?\n   override val lastElementChild: Element?\n   override val childElementCount: Int\n   override fun getElementById(elementId: String): Element?\n   override fun prepend(vararg nodes: dynamic)\n   override fun append(vararg nodes: dynamic)\n   override fun querySelector(selectors: String): Element?\n   override fun querySelectorAll(selectors: String): NodeList\n\n   companion

object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n */\npublic external open class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\n   open val mode: ShadowRootMode\n   open val host: Element\n   override val fullscreenElement: Element?\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\n */\npublic external abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils, UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent, UnionElementOrProcessingInstruction {\n   open val namespaceURI: String?\n   open val prefix: String?\n   open val localName: String\n   open val tagName: String\n   open var id: String\n   open var className: String\n   open val classList: DOMTokenList\n   open var slot: String\n   open val attributes: NamedNodeMap\n   open val shadowRoot: ShadowRoot?\n   open var scrollTop: Double\n   open var scrollLeft: Double\n   open val scrollWidth: Int\n   open val scrollHeight: Int\n   open val clientTop: Int\n   open val clientLeft: Int\n   open val clientWidth: Int\n   open val clientHeight: Int\n   open var innerHTML: String\n   open var outerHTML: String\n   fun hasAttributes(): Boolean\n   fun getAttributeNames(): Array<String>\n   fun getAttribute(qualifiedName: String): String?\n   fun getAttributeNS(namespace: String?, localName: String): String?\n   fun setAttribute(qualifiedName: String, value: String)\n   fun setAttributeNS(namespace: String?, qualifiedName: String, value: String)\n   fun removeAttribute(qualifiedName: String)\n   fun removeAttributeNS(namespace: String?, localName: String)\n   fun hasAttribute(qualifiedName: String): Boolean\n   fun hasAttributeNS(namespace: String?, localName: String): Boolean\n   fun getAttributeNode(qualifiedName: String): Attr?\n   fun getAttributeNodeNS(namespace: String?,

localName: String): Attr?\n   fun setAttributeNode(attr: Attr): Attr?\n   fun setAttributeNodeNS(attr: Attr): Attr?\n
fun removeAttributeNode(attr: Attr): Attr\n   fun attachShadow(init: ShadowRootInit): ShadowRoot\n   fun
closest(selectors: String): Element?\n   fun matches(selectors: String): Boolean\n   fun
webkitMatchesSelector(selectors: String): Boolean\n   fun getElementsByTagName(qualifiedName: String):
HTMLCollection\n

  fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n   fun
getElementsByClassName(classNames: String): HTMLCollection\n   fun insertAdjacentElement(where: String,
element: Element): Element?\n   fun insertAdjacentText(where: String, data: String)\n   fun getClientRects():
Array<DOMRect>\n   fun getBoundingClientRect(): DOMRect\n   fun scrollIntoView()\n   fun
scrollIntoView(arg: dynamic)\n   fun scroll(options: ScrollToOptions = definedExternally)\n   fun scroll(x: Double,
y: Double)\n   fun scrollTo(options: ScrollToOptions = definedExternally)\n   fun scrollTo(x: Double, y: Double)\n
  fun scrollBy(options: ScrollToOptions = definedExternally)\n   fun scrollBy(x: Double, y: Double)\n   fun
insertAdjacentHTML(position: String, text: String)\n   fun setPointerCapture(pointerId: Int)\n   fun
releasePointerCapture(pointerId: Int)\n   fun hasPointerCapture(pointerId: Int): Boolean\n   fun requestFullscreen():
Promise<Unit>\n\n   companion
  object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE:
Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val
ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE:
Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external interface
ShadowRootInit {\n   var mode: ShadowRootMode?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ShadowRootInit(mode:
ShadowRootMode?): ShadowRootInit
 {\n   val o = js(\"({})\")\n   o[\"mode\"] = mode\n   return o\n}\n\n/**\n * Exposes the JavaScript
[NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to Kotlin\n */\npublic external
abstract class NamedNodeMap : ItemArrayLike<Attr> {\n   fun getNamedItemNS(namespace: String?, localName:
String): Attr?\n   fun setNamedItem(attr: Attr): Attr?\n   fun setNamedItemNS(attr: Attr): Attr?\n   fun
removeNamedItem(qualifiedName: String): Attr\n   fun removeNamedItemNS(namespace: String?, localName:
String): Attr\n   override fun item(index: Int): Attr?\n   fun getNamedItem(qualifiedName: String):
Attr?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun NamedNodeMap.get(index:
Int): Attr? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n/**\n
 * Exposes the JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\n */\npublic external
abstract class Attr : Node {\n   open val namespaceURI: String?\n   open val prefix: String?\n   open val
localName: String\n   open val name: String\n   open var value: String\n   open val ownerElement: Element?\n
open val specified: Boolean\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val
ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val
ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val
PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n

val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n */\npublic external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n   open var data: String\n   open val length: Int\n   fun substringData(offset: Int, count: Int): String\n   fun appendData(data: String)\n   fun insertData(offset: Int, data: String)\n   fun deleteData(offset: Int, count: Int)\n   fun replaceData(offset: Int, count: Int, data: String)\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\n */\npublic external open class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {\n   open val wholeText: String\n   override val assignedSlot: HTMLSlotElement?\n   override val previousElementSibling: Element?\n   override val nextElementSibling: Element?\n   fun splitText(offset: Int): Text\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n

    override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n   override fun before(vararg nodes: dynamic)\n   override fun after(vararg nodes: dynamic)\n   override fun replaceWith(vararg nodes: dynamic)\n   override fun remove()\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\n */\npublic external open class CDATASection : Text {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY:

Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin *\/\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle, UnionElementOrProcessingInstruction {\n   open val target: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n

      val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin *\/\npublic external open class Comment(data: String = definedExternally) : CharacterData {\n   override val previousElementSibling: Element?\n   override val nextElementSibling: Element?\n   override fun before(vararg nodes: dynamic)\n   override fun after(vararg nodes: dynamic)\n   override fun replaceWith(vararg nodes: dynamic)\n   override fun remove()\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin *\/\npublic external open class Range {\n   open val startContainer: Node\n   open val startOffset: Int\n   open val endContainer: Node\n   open val endOffset: Int\n   open val collapsed: Boolean\n

    open val commonAncestorContainer: Node\n   fun setStart(node: Node, offset: Int)\n   fun setEnd(node: Node, offset: Int)\n   fun setStartBefore(node: Node)\n   fun setStartAfter(node: Node)\n   fun setEndBefore(node: Node)\n   fun setEndAfter(node: Node)\n   fun collapse(toStart: Boolean = definedExternally)\n   fun selectNode(node: Node)\n   fun selectNodeContents(node: Node)\n   fun compareBoundaryPoints(how: Short, sourceRange: Range): Short\n   fun deleteContents()\n   fun extractContents(): DocumentFragment\n   fun cloneContents(): DocumentFragment\n   fun insertNode(node: Node)\n   fun surroundContents(newParent: Node)\n   fun cloneRange(): Range\n   fun detach()\n   fun isPointInRange(node: Node, offset: Int): Boolean\n   fun comparePoint(node: Node, offset: Int): Short\n   fun intersectsNode(node: Node): Boolean\n   fun getClientRects(): Array<DOMRect>\n   fun getBoundingClientRect(): DOMRect\n   fun createContextualFragment(fragment: String): DocumentFragment\n\n

    companion object {\n   val START_TO_START: Short\n   val START_TO_END: Short\n   val END_TO_END: Short\n   val END_TO_START: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin *\/\npublic external abstract class NodeIterator {\n   open val root: Node\n   open val referenceNode: Node\n   open val pointerBeforeReferenceNode: Boolean\n   open val whatToShow: Int\n   open val filter: NodeFilter?\n   fun nextNode(): Node?\n   fun previousNode(): Node?\n   fun detach()\n}\n\n/**\n * Exposes the JavaScript [TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin *\/\npublic external abstract class TreeWalker {\n   open val root: Node\n   open val whatToShow: Int\n   open val filter: NodeFilter?\n   open

var currentNode: Node\n   fun parentNode(): Node?\n   fun firstChild(): Node?\n   fun lastChild(): Node?\n   fun previousSibling():

 Node?\n   fun nextSibling(): Node?\n   fun previousNode(): Node?\n   fun nextNode(): Node?\n}\n\n/**\n * Exposes the JavaScript [NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\n *\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface NodeFilter {\n fun acceptNode(node: Node): Short\n\n   companion object {\n   val FILTER_ACCEPT: Short\n   val FILTER_REJECT: Short\n   val FILTER_SKIP: Short\n   val SHOW_ALL: Int\n   val SHOW_ELEMENT: Int\n   val SHOW_ATTRIBUTE: Int\n   val SHOW_TEXT: Int\n   val SHOW_CDATA_SECTION: Int\n   val SHOW_ENTITY_REFERENCE: Int\n   val SHOW_ENTITY: Int\n   val SHOW_PROCESSING_INSTRUCTION: Int\n   val SHOW_COMMENT: Int\n   val SHOW_DOCUMENT: Int\n   val SHOW_DOCUMENT_TYPE: Int\n   val SHOW_DOCUMENT_FRAGMENT: Int\n   val SHOW_NOTATION: Int\n   }\n}\n\n/**\n * Exposes the JavaScript [DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList)

 to Kotlin\n */\npublic external abstract class DOMTokenList : ItemArrayLike<String> {\n   open var value: String\n   fun contains(token: String): Boolean\n   fun add(vararg tokens: String)\n   fun remove(vararg tokens: String)\n   fun toggle(token: String, force: Boolean = definedExternally): Boolean\n   fun replace(token: String, newToken: String)\n   fun supports(token: String): Boolean\n   override fun item(index: Int): String?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMTokenList.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin\n */\npublic external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\n   open val x: Double\n   open val y: Double\n   open val z: Double\n   open val w: Double\n   fun matrixTransform(matrix: DOMMatrixReadOnly): DOMPoint\n}\n\n/**\n * Exposes the JavaScript [DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\n */\npublic external open class DOMPoint : DOMPointReadOnly {\n   constructor(point: DOMPointInit)\n   constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)\n   override var x: Double\n   override var y: Double\n   override var z: Double\n   override var w: Double\n}\n\n/**\n * Exposes the JavaScript [DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\n */\npublic external interface DOMPointInit {\n   var x: Double? /* = 0.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var y: Double? /* = 0.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var z: Double? /* = 0.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n

    var w: Double? /* = 1.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DOMPointInit(x: Double? = 0.0, y: Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\n   val o = js(\"({})\")\n   o[\"x\"] = x\n   o[\"y\"] = y\n   o[\"z\"] = z\n   o[\"w\"] = w\n   return o\n}\n\n/**\n * Exposes the JavaScript [DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\n */\npublic external open class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally) : DOMRectReadOnly {\n   override var x: Double\n   override var y: Double\n   override var width: Double\n   override var height: Double\n}\n\n/**\n * Exposes the JavaScript [DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n */\npublic external

 open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {\n   open val x: Double\n   open val y: Double\n   open val width: Double\n   open val height: Double\n   open val top: Double\n   open val right: Double\n   open val bottom: Double\n   open val left: Double\n}\n\npublic external interface DOMRectInit

{\n   var x: Double? /* = 0.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var y: Double? /* = 0.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var width: Double? /* = 0.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var height: Double? /* = 0.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit

{\n   val o = js(\"({})\")\n   o[\"x\"] = x\n   o[\"y\"] = y\n   o[\"width\"] = width\n   o[\"height\"] = height\n   return o\n}\n\npublic external interface DOMRectList : ItemArrayLike<DOMRect> {\n   override fun item(index: Int): DOMRect?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMRectList.get(index: Int): DOMRect? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n */\npublic external open class DOMQuad {\n   constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit = definedExternally, p4: DOMPointInit = definedExternally)\n   constructor(rect: DOMRectInit)\n   open val p1: DOMPoint\n   open val p2: DOMPoint\n   open val p3: DOMPoint\n   open val p4: DOMPoint\n   open val bounds: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript [DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin\n */\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n   open val a: Double\n   open val b: Double\n   open val c: Double\n   open val d: Double\n   open val e: Double\n   open val f: Double\n   open val m11: Double\n   open val m12: Double\n   open val m13: Double\n   open val m14: Double\n   open val m21: Double\n   open val m22: Double\n   open val m23: Double\n   open val m24: Double\n   open val m31: Double\n   open val m32: Double\n   open val m33: Double\n   open val m34: Double\n   open val m41: Double\n   open val m42: Double\n   open val m43: Double\n   open val m44: Double\n   open val is2D: Boolean\n   open val isIdentity: Boolean\n   fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n   fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n   fun scale3d(scale: Double,

originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n   fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n   fun rotate(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n   fun rotateFromVector(x: Double, y: Double): DOMMatrix\n   fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n   fun skewX(sx: Double): DOMMatrix\n   fun skewY(sy: Double): DOMMatrix\n   fun multiply(other: DOMMatrix): DOMMatrix\n   fun flipX(): DOMMatrix\n   fun flipY(): DOMMatrix\n   fun inverse(): DOMMatrix\n   fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n   fun toFloat32Array(): Float32Array\n   fun toFloat64Array(): Float64Array\n}\n\n/**\n *

Exposes the JavaScript [DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n */\npublic external open class DOMMatrix() : DOMMatrixReadOnly {\n   constructor(transformList: String)\n   constructor(other: DOMMatrixReadOnly)\n   constructor(array32: Float32Array)\n   constructor(array64: Float64Array)\n   constructor(numberSequence: Array<Double>)\n   override var a: Double\n   override var b: Double\n   override var c: Double\n   override var d: Double\n   override var e: Double\n   override var f: Double\n   override var m11: Double\n   override var m12: Double\n   override var m13: Double\n   override var m14: Double\n   override var m21: Double\n   override var m22: Double\n   override var m23: Double\n   override var m24: Double\n   override var m31: Double\n   override var m32: Double\n   override var m33: Double\n   override var m34: Double\n   override var m41: Double\n   override var m42: Double\n   override var m43: Double\n

    override var m44: Double\n   fun multiplySelf(other: DOMMatrix): DOMMatrix\n   fun preMultiplySelf(other: DOMMatrix): DOMMatrix\n   fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally):

DOMMatrix\n   fun scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n   fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n   fun scaleNonUniformSelf(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n   fun rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n   fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix\n   fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n   fun skewXSelf(sx: Double): DOMMatrix\n   fun skewYSelf(sy: Double): DOMMatrix\n   fun invertSelf(): DOMMatrix\n   fun setMatrixValue(transformList: String): DOMMatrix\n}\n\npublic external interface ScrollOptions {\n   var behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n   val o = js(\"({})\")\n   o[\"behavior\"] = behavior\n   return o\n}\n\n/**\n * Exposes the JavaScript [ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions) to Kotlin\n */\npublic external interface ScrollToOptions : ScrollOptions {\n   var left: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n   var top: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? = undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n   val o = js(\"({})\")\n   o[\"left\"] = left\n   o[\"top\"] = top\n   o[\"behavior\"] = behavior\n   return o\n}\n\n/**\n * Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to Kotlin\n */\npublic external abstract class MediaQueryList : EventTarget {\n   open val media: String\n   open val matches: Boolean\n   open var onchange: ((Event) -> dynamic)?\n   fun addListener(listener: EventListener?)\n   fun addListener(listener: ((Event) -> Unit)?)\n   fun removeListener(listener: EventListener?)\n   fun removeListener(listener: ((Event) -> Unit)?)\n}\n\n/**\n * Exposes the JavaScript [MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n */\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit = definedExternally) : Event {\n   open val media: String\n   open val matches: Boolean\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface MediaQueryListEventInit : EventInit {\n   var media: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var matches: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaQueryListEventInit(media: String? = \"\", matches: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaQueryListEventInit {\n   val o = js(\"({})\")\n   o[\"media\"] = media\n   o[\"matches\"] = matches\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\n */\npublic external abstract class Screen {\n   open val availWidth: Int\n   open val availHeight: Int\n   open val width: Int\n   open val height: Int\n   open val colorDepth: Int\n   open val pixelDepth: Int\n}\n\n/**\n * Exposes the JavaScript [CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\n */\npublic external abstract class CaretPosition {\n   open val offsetNode: Node\n   open val offset: Int\n   fun getClientRect(): DOMRect?\n}\n\npublic external interface ScrollIntoViewOptions : ScrollOptions {\n   var block: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n   get() = definedExternally\n   set(value) = definedExternally\n   var inline:

ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ScrollIntoViewOptions(block: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline: ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollIntoViewOptions {\n   val o = js(\"({})\")\n   o[\"block\"] = block\n   o[\"inline\"] = inline\n   o[\"behavior\"] = behavior\n   return o\n}\n\npublic external interface BoxQuadOptions {\n   var box: CSSBoxType? /* = CSSBoxType.BORDER */\n   get() = definedExternally\n   set(value) = definedExternally\n   var relativeTo: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun BoxQuadOptions(box: CSSBoxType? = CSSBoxType.BORDER, relativeTo: dynamic = undefined): BoxQuadOptions {\n   val o = js(\"({})\")\n   o[\"box\"] = box\n   o[\"relativeTo\"] = relativeTo\n   return o\n}\n\npublic external interface ConvertCoordinateOptions {\n   var fromBox: CSSBoxType? /* = CSSBoxType.BORDER */\n   get() = definedExternally\n   set(value) = definedExternally\n   var toBox: CSSBoxType? /* = CSSBoxType.BORDER */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConvertCoordinateOptions(fromBox: CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER): ConvertCoordinateOptions {\n   val o = js(\"({})\")\n   o[\"fromBox\"] = fromBox\n   o[\"toBox\"] = toBox\n   return o\n}\n\n/**\n * Exposes the JavaScript [GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\n */\npublic external interface GeometryUtils {\n   fun getBoxQuads(options: BoxQuadOptions = definedExternally): Array<DOMQuad>\n   fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\n   fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMQuad\n   fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMPoint\n}\n\n/**\n * Exposes the JavaScript [Touch](https://developer.mozilla.org/en/docs/Web/API/Touch) to Kotlin\n */\npublic external abstract class Touch {\n   open val identifier: Int\n   open val target: EventTarget\n   open val screenX: Int\n   open val screenY: Int\n   open val clientX: Int\n   open val clientY: Int\n   open val pageX: Int\n   open val pageY: Int\n   open val region: String?\n}\n\npublic external abstract class TouchList : ItemArrayLike<Touch> {\n   override fun item(index: Int): Touch?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun TouchList.get(index: Int): Touch? = asDynamic()[index]\n\npublic external open class TouchEvent : UIEvent {\n   open val touches: TouchList\n   open val targetTouches: TouchList\n   open val changedTouches: TouchList\n   open val altKey: Boolean\n   open val metaKey: Boolean\n   open val ctrlKey: Boolean\n   open val shiftKey: Boolean\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\n */\npublic external open class Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLImageElement {\n   override var onabort: ((Event) -> dynamic)?\n   override var onblur: ((FocusEvent) -> dynamic)?\n   override var oncancel: ((Event) -> dynamic)?\n   override var oncanplay: ((Event) -> dynamic)?\n   override var oncanplaythrough: ((Event) -> dynamic)?\n   override var onchange: ((Event) -> dynamic)?\n   override var onclick: ((MouseEvent) -> dynamic)?\n   override var onclose: ((Event) -> dynamic)?\n   override var oncontextmenu: ((MouseEvent) -> dynamic)?\n   override var oncuechange: ((Event) -> dynamic)?\n   override var ondblclick: ((MouseEvent) -> dynamic)?\n   override var ondrag: ((DragEvent) -> dynamic)?\n   override var ondragend: ((DragEvent) -> dynamic)?\n   override var ondragenter: ((DragEvent) -> dynamic)?\n   override var ondragexit: ((DragEvent) ->

dynamic)?\n   override var ondragleave: ((DragEvent) -> dynamic)?\n   override var ondragover: ((DragEvent) -> dynamic)?\n   override var ondragstart: ((DragEvent) -> dynamic)?\n   override var ondrop: ((DragEvent) -> dynamic)?\n   override var ondurationchange: ((Event) -> dynamic)?\n   override var onemptied: ((Event) -> dynamic)?\n

  override var onended: ((Event) -> dynamic)?\n   override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n   override var onfocus: ((FocusEvent) -> dynamic)?\n   override var oninput: ((InputEvent) -> dynamic)?\n   override var oninvalid: ((Event) -> dynamic)?\n   override var onkeydown: ((KeyboardEvent) -> dynamic)?\n   override var onkeypress: ((KeyboardEvent) -> dynamic)?\n   override var onkeyup: ((KeyboardEvent) -> dynamic)?\n   override var onload: ((Event) -> dynamic)?\n   override var onloadeddata: ((Event) -> dynamic)?\n   override var onloadedmetadata: ((Event) -> dynamic)?\n   override var onloadend: ((Event) -> dynamic)?\n   override var onloadstart: ((ProgressEvent) -> dynamic)?\n   override var onmousedown: ((MouseEvent) -> dynamic)?\n   override var onmouseenter: ((MouseEvent) -> dynamic)?\n   override var onmouseleave: ((MouseEvent) -> dynamic)?\n   override var onmousemove: ((MouseEvent) -> dynamic)?\n   override var onmouseout: ((MouseEvent)

 -> dynamic)?\n   override var onmouseover: ((MouseEvent) -> dynamic)?\n   override var onmouseup: ((MouseEvent) -> dynamic)?\n   override var onwheel: ((WheelEvent) -> dynamic)?\n   override var onpause: ((Event) -> dynamic)?\n   override var onplay: ((Event) -> dynamic)?\n   override var onplaying: ((Event) -> dynamic)?\n   override var onprogress: ((ProgressEvent) -> dynamic)?\n   override var onratechange: ((Event) -> dynamic)?\n   override var onreset: ((Event) -> dynamic)?\n   override var onresize: ((Event) -> dynamic)?\n   override var onscroll: ((Event) -> dynamic)?\n   override var onseeked: ((Event) -> dynamic)?\n   override var onseeking: ((Event) -> dynamic)?\n   override var onselect: ((Event) -> dynamic)?\n   override var onshow: ((Event) -> dynamic)?\n   override var onstalled: ((Event) -> dynamic)?\n   override var onsubmit: ((Event) -> dynamic)?\n   override var onsuspend: ((Event) -> dynamic)?\n   override var ontimeupdate: ((Event) -> dynamic)?\n   override var ontoggle: ((Event) -> dynamic)?\n   override var onvolumechange: ((Event) -> dynamic)?\n   override var onwaiting: ((Event) -> dynamic)?\n   override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n   override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n   override var onpointerdown: ((PointerEvent) -> dynamic)?\n   override var onpointermove: ((PointerEvent) -> dynamic)?\n   override var onpointerup: ((PointerEvent) -> dynamic)?\n   override var onpointercancel: ((PointerEvent) -> dynamic)?\n   override var onpointerover: ((PointerEvent) -> dynamic)?\n   override var onpointerout: ((PointerEvent) -> dynamic)?\n   override var onpointerenter: ((PointerEvent) -> dynamic)?\n   override var onpointerleave: ((PointerEvent) -> dynamic)?\n   override var oncopy: ((ClipboardEvent) -> dynamic)?\n   override var oncut: ((ClipboardEvent) -> dynamic)?\n   override var onpaste: ((ClipboardEvent) -> dynamic)?\n   override var contentEditable:

 String\n   override val isContentEditable: Boolean\n   override val style: CSSStyleDeclaration\n   override val children: HTMLCollection\n   override val firstElementChild: Element?\n   override val lastElementChild: Element?\n   override val childElementCount: Int\n   override val previousElementSibling: Element?\n   override val nextElementSibling: Element?\n   override val assignedSlot: HTMLSlotElement?\n   override fun prepend(vararg nodes: dynamic)\n   override fun append(vararg nodes: dynamic)\n   override fun querySelector(selectors: String): Element?\n   override fun querySelectorAll(selectors: String): NodeList\n   override fun before(vararg nodes: dynamic)\n   override fun after(vararg nodes: dynamic)\n   override fun replaceWith(vararg nodes: dynamic)\n   override fun remove()\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions

 /* = definedExternally */): DOMQuad\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val

ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external open class Audio(src: String = definedExternally) : HTMLAudioElement {\n   override var onabort: ((Event) -> dynamic)?\n   override var onblur: ((FocusEvent) -> dynamic)?\n   override var oncancel: ((Event) -> dynamic)?\n   override var oncanplay: ((Event) -> dynamic)?\n   override var oncanplaythrough: ((Event) -> dynamic)?\n   override var onchange: ((Event) -> dynamic)?\n   override var onclick: ((MouseEvent) -> dynamic)?\n   override var onclose: ((Event) -> dynamic)?\n   override var oncontextmenu: ((MouseEvent) -> dynamic)?\n   override var oncuechange: ((Event) -> dynamic)?\n   override var ondblclick: ((MouseEvent) -> dynamic)?\n   override var ondrag: ((DragEvent) -> dynamic)?\n   override var ondragend: ((DragEvent) -> dynamic)?\n   override var ondragenter: ((DragEvent) -> dynamic)?\n   override var ondragexit: ((DragEvent) -> dynamic)?\n   override var ondragleave: ((DragEvent) -> dynamic)?\n   override var ondragover: ((DragEvent) -> dynamic)?\n   override var ondragstart: ((DragEvent) -> dynamic)?\n   override var ondrop: ((DragEvent) -> dynamic)?\n   override var ondurationchange: ((Event) -> dynamic)?\n   override var onemptied: ((Event) -> dynamic)?\n   override var onended: ((Event) -> dynamic)?\n   override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n   override var onfocus: ((FocusEvent) -> dynamic)?\n   override var oninput: ((InputEvent) -> dynamic)?\n   override var oninvalid: ((Event) -> dynamic)?\n   override var onkeydown: ((KeyboardEvent) -> dynamic)?\n   override var onkeypress: ((KeyboardEvent) -> dynamic)?\n   override var onkeyup: ((KeyboardEvent) -> dynamic)?\n   override var onload: ((Event) -> dynamic)?\n   override var onloadeddata: ((Event) -> dynamic)?\n   override var onloadedmetadata: ((Event) -> dynamic)?\n   override var onloadend: ((Event) -> dynamic)?\n   override var onloadstart: ((ProgressEvent) -> dynamic)?\n   override var onmousedown: ((MouseEvent) -> dynamic)?\n   override var onmouseenter: ((MouseEvent) -> dynamic)?\n   override var onmouseleave: ((MouseEvent) -> dynamic)?\n   override var onmousemove: ((MouseEvent) -> dynamic)?\n   override var onmouseout: ((MouseEvent) -> dynamic)?\n   override var onmouseover: ((MouseEvent) -> dynamic)?\n   override var onmouseup: ((MouseEvent) -> dynamic)?\n   override var onwheel: ((WheelEvent) -> dynamic)?\n   override var onpause: ((Event) -> dynamic)?\n   override var onplay: ((Event) -> dynamic)?\n   override var onplaying: ((Event) -> dynamic)?\n   override var onprogress: ((ProgressEvent) -> dynamic)?\n   override var onratechange: ((Event) -> dynamic)?\n   override var onreset: ((Event) -> dynamic)?\n   override var onresize: ((Event) -> dynamic)?\n   override var onscroll: ((Event) -> dynamic)?\n   override var onseeked: ((Event) -> dynamic)?\n   override var onseeking: ((Event) -> dynamic)?\n   override var onselect: ((Event) -> dynamic)?\n   override var onshow: ((Event) -> dynamic)?\n   override var onstalled: ((Event) -> dynamic)?\n   override var onsubmit: ((Event) -> dynamic)?\n   override var onsuspend: ((Event) -> dynamic)?\n   override var ontimeupdate: ((Event) -> dynamic)?\n   override var ontoggle: ((Event) -> dynamic)?\n   override var onvolumechange: ((Event) -> dynamic)?\n   override var onwaiting: ((Event) -> dynamic)?\n   override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n   override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n   override var onpointerdown: ((PointerEvent) -> dynamic)?\n   override var onpointermove: ((PointerEvent) -> dynamic)?\n   override var onpointerup: ((PointerEvent) -> dynamic)?\n   override var onpointercancel: ((PointerEvent) -> dynamic)?\n   override var onpointerover: ((PointerEvent) -> dynamic)?\n   override var onpointerout: ((PointerEvent) -> dynamic)?\n   override var onpointerenter: ((PointerEvent) -> dynamic)?\n   override var onpointerleave: ((PointerEvent) -> dynamic)?\n   override var oncopy: ((ClipboardEvent) -> dynamic)?\n   override var oncut: ((ClipboardEvent) -> dynamic)?\n   override var onpaste: ((ClipboardEvent) -> dynamic)?\n   override

var contentEditable: String\n   override val isContentEditable: Boolean\n   override val style: CSSStyleDeclaration\n   override val children: HTMLCollection\n   override val firstElementChild: Element?\n   override val lastElementChild: Element?\n   override val childElementCount: Int\n   override val previousElementSibling: Element?\n   override val nextElementSibling: Element?\n   override val assignedSlot: HTMLSlotElement?\n   override fun prepend(vararg nodes: dynamic)\n   override fun append(vararg nodes: dynamic)\n   override fun querySelector(selectors: String): Element?\n   override fun querySelectorAll(selectors: String): NodeList\n

    override fun before(vararg nodes: dynamic)\n   override fun after(vararg nodes: dynamic)\n   override fun replaceWith(vararg nodes: dynamic)\n   override fun remove()\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n   companion object {\n   val NETWORK_EMPTY: Short\n   val NETWORK_IDLE: Short\n   val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n   val HAVE_NOTHING: Short\n   val HAVE_METADATA: Short\n   val HAVE_CURRENT_DATA: Short\n   val HAVE_FUTURE_DATA: Short\n   val HAVE_ENOUGH_DATA: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n */\npublic external open class Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean = definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {\n   override var onabort: ((Event) -> dynamic)?\n   override var onblur: ((FocusEvent) -> dynamic)?\n   override var oncancel: ((Event) -> dynamic)?\n   override var oncanplay: ((Event) -> dynamic)?\n   override var oncanplaythrough: ((Event) -> dynamic)?\n   override var onchange: ((Event) -> dynamic)?\n   override var onclick: ((MouseEvent) -> dynamic)?\n   override var onclose: ((Event) -> dynamic)?\n   override var oncontextmenu: ((MouseEvent) -> dynamic)?\n   override var oncuechange: ((Event) -> dynamic)?\n   override var ondblclick: ((MouseEvent) -> dynamic)?\n   override var ondrag: ((DragEvent) -> dynamic)?\n   override var ondragend: ((DragEvent) -> dynamic)?\n   override var ondragenter: ((DragEvent) -> dynamic)?\n   override var ondragexit: ((DragEvent) -> dynamic)?\n   override var ondragleave: ((DragEvent) -> dynamic)?\n   override var ondragover: ((DragEvent) -> dynamic)?\n   override var ondragstart: ((DragEvent) -> dynamic)?\n   override var ondrop: ((DragEvent) -> dynamic)?\n   override var ondurationchange: ((Event) -> dynamic)?\n   override var onemptied: ((Event) -> dynamic)?\n   override var onended: ((Event) -> dynamic)?\n   override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n   override var onfocus: ((FocusEvent) -> dynamic)?\n   override var oninput: ((InputEvent) -> dynamic)?\n   override var oninvalid: ((Event) -> dynamic)?\n   override var onkeydown: ((KeyboardEvent) -> dynamic)?\n   override var onkeypress: ((KeyboardEvent) -> dynamic)?\n   override var onkeyup: ((KeyboardEvent) -> dynamic)?\n   override var onload: ((Event) -> dynamic)?\n   override var onloadeddata: ((Event) -> dynamic)?\n   override var onloadedmetadata: ((Event) -> dynamic)?\n   override var onloadend: ((Event) -> dynamic)?\n   override var onloadstart: ((ProgressEvent) -> dynamic)?\n

override var onmousedown: ((MouseEvent) -> dynamic)?\n   override var onmouseenter: ((MouseEvent) -> dynamic)?\n   override var onmouseleave: ((MouseEvent) -> dynamic)?\n   override var onmousemove: ((MouseEvent) -> dynamic)?\n   override var onmouseout: ((MouseEvent) -> dynamic)?\n   override var onmouseover: ((MouseEvent) -> dynamic)?\n   override var onmouseup: ((MouseEvent) -> dynamic)?\n   override var onwheel: ((WheelEvent) -> dynamic)?\n   override var onpause: ((Event) -> dynamic)?\n   override var onplay: ((Event) -> dynamic)?\n   override var onplaying: ((Event) -> dynamic)?\n   override var onprogress: ((ProgressEvent) -> dynamic)?\n   override var onratechange: ((Event) -> dynamic)?\n   override var onreset: ((Event) -> dynamic)?\n   override var onresize: ((Event) -> dynamic)?\n   override var onscroll: ((Event) -> dynamic)?\n   override var onseeked: ((Event) -> dynamic)?\n   override var onseeking: ((Event) -> dynamic)?\n   override var onselect: ((Event)

-> dynamic)?\n   override var onshow: ((Event) -> dynamic)?\n   override var onstalled: ((Event) -> dynamic)?\n   override var onsubmit: ((Event) -> dynamic)?\n   override var onsuspend: ((Event) -> dynamic)?\n   override var ontimeupdate: ((Event) -> dynamic)?\n   override var ontoggle: ((Event) -> dynamic)?\n   override var onvolumechange: ((Event) -> dynamic)?\n   override var onwaiting: ((Event) -> dynamic)?\n   override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n   override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n   override var onpointerdown: ((PointerEvent) -> dynamic)?\n   override var onpointermove: ((PointerEvent) -> dynamic)?\n   override var onpointerup: ((PointerEvent) -> dynamic)?\n   override var onpointercancel: ((PointerEvent) -> dynamic)?\n   override var onpointerover: ((PointerEvent) -> dynamic)?\n   override var onpointerout: ((PointerEvent) -> dynamic)?\n   override var onpointerenter: ((PointerEvent) -> dynamic)?\n

override var onpointerleave: ((PointerEvent) -> dynamic)?\n   override var oncopy: ((ClipboardEvent) -> dynamic)?\n   override var oncut: ((ClipboardEvent) -> dynamic)?\n   override var onpaste: ((ClipboardEvent) -> dynamic)?\n   override var contentEditable: String\n   override val isContentEditable: Boolean\n   override val style: CSSStyleDeclaration\n   override val children: HTMLCollection\n   override val firstElementChild: Element?\n   override val lastElementChild: Element?\n   override val childElementCount: Int\n   override val previousElementSibling: Element?\n   override val nextElementSibling: Element?\n   override val assignedSlot: HTMLSlotElement?\n   override fun prepend(vararg nodes: dynamic)\n   override fun append(vararg nodes: dynamic)\n   override fun querySelector(selectors: String): Element?\n   override fun querySelectorAll(selectors: String): NodeList\n   override fun before(vararg nodes: dynamic)\n   override fun after(vararg nodes: dynamic)\n   override fun replaceWith(vararg nodes: dynamic)\n   override fun remove()\n   override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n   override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external interface UnionElementOrHTMLCollection\n\npublic external interface UnionElementOrRadioNodeList\n\npublic external interface UnionHTMLOptGroupElementOrHTMLOptionElement\n\npublic external interface UnionAudioTrackOrTextTrackOrVideoTrack\n\npublic external interface UnionElementOrMouseEvent\n\npublic external interface UnionMessagePortOrWindowProxy\n\npublic external interface MediaProvider\n\npublic

external interface RenderingContext\n\npublic external interface HTMLOrSVGImageElement : CanvasImageSource\n\npublic external interface CanvasImageSource : ImageBitmapSource\n\npublic external interface ImageBitmapSource\n\npublic external interface HTMLOrSVGScriptElement\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface DocumentReadyState {\n   companion object\n}\n\npublic inline val DocumentReadyState.Companion.LOADING: DocumentReadyState get() = \"loading\".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() = \"interactive\".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() = \"complete\".asDynamic().unsafeCast<DocumentReadyState>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanPlayTypeResult {\n   companion object\n}\n\npublic inline val CanPlayTypeResult.Companion.EMPTY: CanPlayTypeResult get() = \"\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() = \"maybe\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() = \"probably\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface TextTrackMode {\n   companion object\n}\n\npublic inline val TextTrackMode.Companion.DISABLED: TextTrackMode get() = \"disabled\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val TextTrackMode.Companion.HIDDEN: TextTrackMode get() = \"hidden\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val TextTrackMode.Companion.SHOWING: TextTrackMode get() = \"showing\".asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface TextTrackKind {\n   companion object\n}\n\npublic inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() = \"subtitles\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val TextTrackKind.Companion.CAPTIONS: TextTrackKind get() = \"captions\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val TextTrackKind.Companion.DESCRIPTIONS: TextTrackKind get() = \"descriptions\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val TextTrackKind.Companion.CHAPTERS: TextTrackKind get() = \"chapters\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val TextTrackKind.Companion.METADATA: TextTrackKind get() = \"metadata\".asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface SelectionMode {\n   companion object\n}\n\npublic inline val SelectionMode.Companion.SELECT: SelectionMode get() = \"select\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.START: SelectionMode get() = \"start\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.END: SelectionMode get() = \"end\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.PRESERVE: SelectionMode get() = \"preserve\".asDynamic().unsafeCast<SelectionMode>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic

external interface CanvasFillRule {\n   companion object\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO: CanvasFillRule get() = \"nonzero\".asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val CanvasFillRule.Companion.EVENODD: CanvasFillRule get() = \"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ImageSmoothingQuality {\n   companion object\n}\n\npublic inline val ImageSmoothingQuality.Companion.LOW: ImageSmoothingQuality get() = \"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() = \"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() = \"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasLineCap {\n   companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() = \"butt\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.ROUND: CanvasLineCap get() = \"round\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.SQUARE: CanvasLineCap get() = \"square\".asDynamic().unsafeCast<CanvasLineCap>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasLineJoin {\n   companion object\n}\n\npublic inline val CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() = \"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.BEVEL: CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.MITER: CanvasLineJoin get() = \"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasTextAlign {\n   companion object\n}\n\npublic inline val CanvasTextAlign.Companion.START: CanvasTextAlign get() = \"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.END: CanvasTextAlign get() = \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() = \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() = \"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() = \"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasTextBaseline {\n   companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP: CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() = \"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() = \"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() = \"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() = \"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =

\"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasDirection {\n   companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR: CanvasDirection get() = \"ltr\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.RTL: CanvasDirection get() = \"rtl\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.INHERIT: CanvasDirection get() = \"inherit\".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ScrollRestoration {\n   companion object\n}\n\npublic inline val ScrollRestoration.Companion.AUTO: ScrollRestoration get() = \"auto\".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic inline val ScrollRestoration.Companion.MANUAL: ScrollRestoration get() = \"manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ImageOrientation {\n   companion object\n}\n\npublic inline val ImageOrientation.Companion.NONE: ImageOrientation get() = \"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val ImageOrientation.Companion.FLIPY: ImageOrientation get() = \"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/*
 please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface PremultiplyAlpha {\n   companion object\n}\n\npublic inline val PremultiplyAlpha.Companion.NONE: PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() = \"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() = \"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ColorSpaceConversion {\n   companion object\n}\n\npublic inline val ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() = \"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val ColorSpaceConversion.Companion.DEFAULT:
 ColorSpaceConversion get() = \"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ResizeQuality {\n   companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED: ResizeQuality get() = \"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.LOW: ResizeQuality get() = \"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.MEDIUM: ResizeQuality get() = \"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.HIGH: ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface BinaryType {\n   companion object\n}\n\npublic inline
 val BinaryType.Companion.BLOB: BinaryType get() = \"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val BinaryType.Companion.ARRAYBUFFER: BinaryType get() = \"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface WorkerType {\n   companion object\n}\n\npublic inline val WorkerType.Companion.CLASSIC:

WorkerType get() = \"classic\".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val WorkerType.Companion.MODULE: WorkerType get() = \"module\".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ShadowRootMode {\n   companion object\n}\n\npublic inline val ShadowRootMode.Companion.OPEN: ShadowRootMode get() = \"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val ShadowRootMode.Companion.CLOSED:
 ShadowRootMode get() = \"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ScrollBehavior {\n   companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO: ScrollBehavior get() = \"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.INSTANT: ScrollBehavior get() = \"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() = \"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ScrollLogicalPosition {\n   companion object\n}\n\npublic inline val ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() = \"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic
 inline val ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() = \"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() = \"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() = \"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CSSBoxType {\n   companion object\n}\n\npublic inline val CSSBoxType.Companion.MARGIN: CSSBoxType get() = \"margin\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.BORDER: CSSBoxType get() = \"border\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.PADDING: CSSBoxType get() = \"padding\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline
 val CSSBoxType.Companion.CONTENT: CSSBoxType get() = \"content\".asDynamic().unsafeCast<CSSBoxType>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.fetch\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.files.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n */\npublic external open class Headers(init: dynamic = definedExternally) {\n   fun append(name: String, value: String)\n   fun delete(name: String)\n   fun get(name: String): String?\n   fun has(name: String): Boolean\n   fun set(name: String, value: String)\n}\n\n/**\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body)
 to Kotlin\n */\npublic external interface Body {\n   val bodyUsed: Boolean\n   fun arrayBuffer(): Promise<ArrayBuffer>\n   fun blob(): Promise<Blob>\n   fun formData(): Promise<FormData>\n   fun json(): Promise<Any?>\n   fun text(): Promise<String>\n}\n\n/**\n * Exposes the JavaScript [Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n */\npublic external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {\n   open val method: String\n   open val url: String\n   open val headers: Headers\n   open val type: RequestType\n   open val destination: RequestDestination\n   open val referrer: String\n   open val referrerPolicy: dynamic\n   open val mode: RequestMode\n   open val credentials: RequestCredentials\n   open val cache: RequestCache\n   open val redirect:

RequestRedirect\n   open val integrity: String\n   open val keepalive: Boolean\n   override val bodyUsed: Boolean\n   fun clone(): Request\n   override

 fun arrayBuffer(): Promise<ArrayBuffer>\n   override fun blob(): Promise<Blob>\n   override fun formData(): Promise<FormData>\n   override fun json(): Promise<Any?>\n   override fun text(): Promise<String>\n}\n\npublic external interface RequestInit {\n   var method: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var headers: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var body: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var referrer: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var referrerPolicy: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var mode: RequestMode?\n   get() = definedExternally\n   set(value) = definedExternally\n   var credentials: RequestCredentials?\n   get() = definedExternally\n   set(value) = definedExternally\n   var

 cache: RequestCache?\n   get() = definedExternally\n   set(value) = definedExternally\n   var redirect: RequestRedirect?\n   get() = definedExternally\n   set(value) = definedExternally\n   var integrity: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var keepalive: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var window: Any?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun RequestInit(method: String? = undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? = undefined,

 window: Any? = undefined): RequestInit {\n   val o = js(\"({})\")\n   o[\"method\"] = method\n   o[\"headers\"] = headers\n   o[\"body\"] = body\n   o[\"referrer\"] = referrer\n   o[\"referrerPolicy\"] = referrerPolicy\n   o[\"mode\"] = mode\n   o[\"credentials\"] = credentials\n   o[\"cache\"] = cache\n   o[\"redirect\"] = redirect\n   o[\"integrity\"] = integrity\n   o[\"keepalive\"] = keepalive\n   o[\"window\"] = window\n   return o\n}\n\n/**\n * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin\n */\npublic external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {\n   open val type: ResponseType\n   open val url: String\n   open val redirected: Boolean\n   open val status: Short\n   open val ok: Boolean\n   open val statusText: String\n   open val headers: Headers\n   open val body: dynamic\n   open val trailer: Promise<Headers>\n   override val bodyUsed:

 Boolean\n   fun clone(): Response\n   override fun arrayBuffer(): Promise<ArrayBuffer>\n   override fun blob(): Promise<Blob>\n   override fun formData(): Promise<FormData>\n   override fun json(): Promise<Any?>\n   override fun text(): Promise<String>\n\n   companion object {\n   fun error(): Response\n   fun redirect(url: String, status: Short = definedExternally): Response\n   }\n}\n\npublic external interface ResponseInit {\n   var status: Short? /* = 200 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var statusText: String? /* = \"OK\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var headers: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ResponseInit(status: Short? = 200, statusText: String? = \"OK\", headers: dynamic = undefined): ResponseInit

 {\n   val o = js(\"({})\")\n   o[\"status\"] = status\n   o[\"statusText\"] = statusText\n   o[\"headers\"] = headers\n   return o\n}\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestType {\n   companion object\n}\n\npublic inline val RequestType.Companion.EMPTY: RequestType get() = \"\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.AUDIO: RequestType get() = \"audio\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.FONT: RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val

RequestType.Companion.IMAGE: RequestType get() = \"image\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.SCRIPT: RequestType get() = \"script\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.STYLE: RequestType get() = \"style\".asDynamic().unsafeCast<RequestType>()\n\npublic

 inline val RequestType.Companion.TRACK: RequestType get() = \"track\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.VIDEO: RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\n\n/* please, don't implement this interface! *\/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestDestination {\n   companion object\n}\n\npublic inline val RequestDestination.Companion.EMPTY: RequestDestination get() = \"\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.DOCUMENT: RequestDestination get() = \"document\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.EMBED: RequestDestination get() = \"embed\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.FONT: RequestDestination get() = \"font\".asDynamic().unsafeCast<RequestDestination>()\n\npublic

 inline val RequestDestination.Companion.IMAGE: RequestDestination get() = \"image\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.MANIFEST: RequestDestination get() = \"manifest\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.MEDIA: RequestDestination get() = \"media\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.OBJECT: RequestDestination get() = \"object\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.REPORT: RequestDestination get() = \"report\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.SCRIPT: RequestDestination get() = \"script\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.SERVICEWORKER: RequestDestination get() = \"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic

 inline val RequestDestination.Companion.SHAREDWORKER: RequestDestination get() = \"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.STYLE: RequestDestination get() = \"style\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.WORKER: RequestDestination get() = \"worker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.XSLT: RequestDestination get() = \"xslt\".asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface! *\/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestMode {\n   companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE: RequestMode get() = \"navigate\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.SAME_ORIGIN: RequestMode get() = \"same-origin\".asDynamic().unsafeCast<RequestMode>()\n\npublic

 inline val RequestMode.Companion.NO_CORS: RequestMode get() = \"no-cors\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.CORS: RequestMode get() = \"cors\".asDynamic().unsafeCast<RequestMode>()\n\n/* please, don't implement this

interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestCredentials {\n   companion object\n}\n\npublic inline val RequestCredentials.Companion.OMIT: RequestCredentials get() = \"omit\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = \"same-origin\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val RequestCredentials.Companion.INCLUDE: RequestCredentials get() = \"include\".asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestCache {\n   companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT: RequestCache get() = \"default\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_STORE: RequestCache get() = \"no-store\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.RELOAD: RequestCache get() = \"reload\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_CACHE: RequestCache get() = \"no-cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.FORCE_CACHE: RequestCache get() = \"force-cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = \"only-if-cached\".asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestRedirect {\n   companion object\n}\n\npublic inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() = \"follow\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.ERROR: RequestRedirect get() = \"error\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.MANUAL: RequestRedirect get() = \"manual\".asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ResponseType {\n   companion object\n}\n\npublic inline val ResponseType.Companion.BASIC: ResponseType get() = \"basic\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.CORS: ResponseType get() = \"cors\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.DEFAULT: ResponseType get() = \"default\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.ERROR: ResponseType get() = \"error\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUE: ResponseType get() = \"opaque\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() = \"opaqueredirect\".asDynamic().unsafeCast<ResponseType>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript [MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n */\npublic external open class MediaStream() : EventTarget, MediaProvider {\n   constructor(stream: MediaStream)\n   constructor(tracks: Array<MediaStreamTrack>)\n   open val id: String\n   open val active: Boolean\n   var onaddtrack: ((MediaStreamTrackEvent) -> dynamic)?\n   var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\n   fun getAudioTracks(): Array<MediaStreamTrack>\n   fun getVideoTracks(): Array<MediaStreamTrack>\n   fun getTracks(): Array<MediaStreamTrack>\n   fun

getTrackById(trackId: String): MediaStreamTrack?\n   fun addTrack(track: MediaStreamTrack)\n   fun removeTrack(track: MediaStreamTrack)\n   fun clone(): MediaStream\n}\n\n/**\n * Exposes the JavaScript [MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n */\npublic external abstract class MediaStreamTrack : EventTarget {\n   open val kind: String\n   open val id: String\n   open val label: String\n   open var enabled: Boolean\n   open val muted: Boolean\n   open var onmute: ((Event) -> dynamic)?\n   open var onunmute:

((Event) -> dynamic)?\n   open val readyState: MediaStreamTrackState\n   open var onended: ((Event) -> dynamic)?\n   open var onoverconstrained: ((Event) -> dynamic)?\n   fun clone(): MediaStreamTrack\n   fun stop()\n   fun getCapabilities(): MediaTrackCapabilities\n   fun getConstraints(): MediaTrackConstraints\n   fun getSettings(): MediaTrackSettings\n   fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript [MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin\n */\npublic external interface MediaTrackSupportedConstraints {\n   var width: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var height: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var aspectRatio: Boolean? /* = true */\n   get() = definedExternally\n

        set(value) = definedExternally\n   var frameRate: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var facingMode: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var resizeMode: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var volume: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var sampleRate: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var sampleSize: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var echoCancellation: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var autoGainControl: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var noiseSuppression:

 Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var latency: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var channelCount: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var deviceId: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var groupId: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true, frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true, sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true,

 autoGainControl: Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true, deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\n   val o = js(\"({})\")\n   o[\"width\"] = width\n   o[\"height\"] = height\n   o[\"aspectRatio\"] = aspectRatio\n   o[\"frameRate\"] = frameRate\n   o[\"facingMode\"] = facingMode\n   o[\"resizeMode\"] = resizeMode\n   o[\"volume\"] = volume\n   o[\"sampleRate\"] = sampleRate\n   o[\"sampleSize\"] = sampleSize\n   o[\"echoCancellation\"] = echoCancellation\n   o[\"autoGainControl\"] = autoGainControl\n   o[\"noiseSuppression\"] = noiseSuppression\n   o[\"latency\"] = latency\n   o[\"channelCount\"] = channelCount\n   o[\"deviceId\"] = deviceId\n   o[\"groupId\"] = groupId\n   return o\n}\n\npublic external interface MediaTrackCapabilities {\n   var width: ULongRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var height:

 ULongRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var aspectRatio: DoubleRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var frameRate: DoubleRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var facingMode:

Array<String>?\n   get() = definedExternally\n   set(value) = definedExternally\n   var resizeMode: Array<String>?\n   get() = definedExternally\n   set(value) = definedExternally\n   var volume: DoubleRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var sampleRate: ULongRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var sampleSize: ULongRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var echoCancellation: Array<Boolean>?\n   get() = definedExternally\n   set(value) = definedExternally\n   var autoGainControl: Array<Boolean>?\n

get() = definedExternally\n   set(value) = definedExternally\n   var noiseSuppression: Array<Boolean>?\n   get() = definedExternally\n   set(value) = definedExternally\n   var latency: DoubleRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var channelCount: ULongRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var deviceId: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var groupId: String?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackCapabilities(width: ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined, frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? = undefined, volume: DoubleRange?
 = undefined, sampleRate: ULongRange? = undefined, sampleSize: ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>? = undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount: ULongRange? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities {\n   val o = js(\"({})\")\n   o[\"width\"] = width\n   o[\"height\"] = height\n   o[\"aspectRatio\"] = aspectRatio\n   o[\"frameRate\"] = frameRate\n   o[\"facingMode\"] = facingMode\n   o[\"resizeMode\"] = resizeMode\n   o[\"volume\"] = volume\n   o[\"sampleRate\"] = sampleRate\n   o[\"sampleSize\"] = sampleSize\n   o[\"echoCancellation\"] = echoCancellation\n   o[\"autoGainControl\"] = autoGainControl\n   o[\"noiseSuppression\"] = noiseSuppression\n   o[\"latency\"] = latency\n   o[\"channelCount\"] = channelCount\n   o[\"deviceId\"] = deviceId\n   o[\"groupId\"] = groupId\n   return o\n}\n\n/**\n
 * Exposes the JavaScript [MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin\n */\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\n   var advanced: Array<MediaTrackConstraintSet>?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraints(advanced: Array<MediaTrackConstraintSet>? = undefined, width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraints {\n   val o = js(\"({})\")\n   o[\"advanced\"] = advanced\n   o[\"width\"] = width\n   o[\"height\"] = height\n   o[\"aspectRatio\"] = aspectRatio\n   o[\"frameRate\"] = frameRate\n   o[\"facingMode\"] = facingMode\n   o[\"resizeMode\"] = resizeMode\n   o[\"volume\"] = volume\n   o[\"sampleRate\"] = sampleRate\n   o[\"sampleSize\"] = sampleSize\n   o[\"echoCancellation\"] = echoCancellation\n   o[\"autoGainControl\"] = autoGainControl\n   o[\"noiseSuppression\"] = noiseSuppression\n   o[\"latency\"] = latency\n   o[\"channelCount\"] = channelCount\n   o[\"deviceId\"] = deviceId\n   o[\"groupId\"] = groupId\n   return o\n}\n\npublic external interface MediaTrackConstraintSet {\n   var width: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var height: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var aspectRatio:

dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var frameRate: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var facingMode: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var resizeMode: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var volume: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var sampleRate: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var sampleSize: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var echoCancellation: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var autoGainControl: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var noiseSuppression: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var latency: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var channelCount: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var deviceId: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var groupId: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraintSet(width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraintSet {\n   val o = js(\"({})\")\n   o[\"width\"] = width\n   o[\"height\"] = height\n   o[\"aspectRatio\"] = aspectRatio\n   o[\"frameRate\"] = frameRate\n   o[\"facingMode\"] = facingMode\n   o[\"resizeMode\"] = resizeMode\n   o[\"volume\"] = volume\n   o[\"sampleRate\"] = sampleRate\n   o[\"sampleSize\"] = sampleSize\n   o[\"echoCancellation\"] = echoCancellation\n   o[\"autoGainControl\"] = autoGainControl\n   o[\"noiseSuppression\"] = noiseSuppression\n   o[\"latency\"] = latency\n   o[\"channelCount\"] = channelCount\n   o[\"deviceId\"] = deviceId\n   o[\"groupId\"] = groupId\n   return o\n}\n\n/**\n * Exposes the JavaScript [MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n */\npublic external interface MediaTrackSettings {\n   var width: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n   var height: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n   var aspectRatio: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n   var frameRate: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n   var facingMode: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var resizeMode: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var volume: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n   var sampleRate: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n   var sampleSize: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n   var echoCancellation: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var autoGainControl: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var noiseSuppression: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var latency: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n   var channelCount: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n   var deviceId: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var groupId: String?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSettings(width: Int? = undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined, facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int? = undefined, sampleSize: Int? = undefined, echoCancellation:

Boolean? = undefined, autoGainControl: Boolean? = undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {\n   val o = js(\"({})\")\n   o[\"width\"] = width\n   o[\"height\"] = height\n   o[\"aspectRatio\"] = aspectRatio\n   o[\"frameRate\"] = frameRate\n   o[\"facingMode\"] = facingMode\n   o[\"resizeMode\"] = resizeMode\n   o[\"volume\"] = volume\n   o[\"sampleRate\"] = sampleRate\n   o[\"sampleSize\"] = sampleSize\n   o[\"echoCancellation\"] = echoCancellation\n   o[\"autoGainControl\"] = autoGainControl\n   o[\"noiseSuppression\"] = noiseSuppression\n   o[\"latency\"] = latency\n   o[\"channelCount\"] = channelCount\n   o[\"deviceId\"] = deviceId\n   o[\"groupId\"] = groupId\n   return o\n}\n\n/**\n * Exposes the JavaScript [MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n */\npublic external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) : Event {\n   open val track: MediaStreamTrack\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface MediaStreamTrackEventInit : EventInit {\n   var track: MediaStreamTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamTrackEventInit(track: MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaStreamTrackEventInit {\n   val o = js(\"({})\")\n   o[\"track\"] = track\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\npublic external open class OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event {\n   open val error: dynamic\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface OverconstrainedErrorEventInit : EventInit {\n   var error: dynamic /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun OverconstrainedErrorEventInit(error: dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): OverconstrainedErrorEventInit {\n   val o = js(\"({})\")\n   o[\"error\"] = error\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n */\npublic external abstract class MediaDevices : EventTarget {\n   open var ondevicechange: ((Event) -> dynamic)?\n   fun enumerateDevices(): Promise<Array<MediaDeviceInfo>>\n   fun getSupportedConstraints(): MediaTrackSupportedConstraints\n   fun getUserMedia(constraints: MediaStreamConstraints = definedExternally): Promise<MediaStream>\n}\n\n/**\n * Exposes the JavaScript [MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\n */\npublic external abstract class MediaDeviceInfo {\n   open val deviceId: String\n   open val kind: MediaDeviceKind\n   open val label: String\n   open val groupId: String\n   fun toJSON(): dynamic\n}\n\npublic external abstract class InputDeviceInfo : MediaDeviceInfo {\n   fun getCapabilities(): MediaTrackCapabilities\n}\n\n/**\n * Exposes the JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to Kotlin\n */\npublic external interface MediaStreamConstraints {\n   var video: dynamic /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var audio: dynamic /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n   val o = js(\"({})\")\n   o[\"video\"] = video\n   o[\"audio\"] = audio\n   return o\n}\n\npublic external interface ConstrainablePattern {\n   var onoverconstrained: ((Event) -> dynamic)?\n   get() = definedExternally\n   set(value) = definedExternally\n   fun getCapabilities(): Capabilities\n   fun getConstraints(): Constraints\n   fun getSettings(): Settings\n   fun applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the

JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n */\npublic external interface

 DoubleRange {\n   var max: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n   var min: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleRange(max: Double? = undefined, min: Double? = undefined): DoubleRange {\n   val o = js(\"({})\")\n   o[\"max\"] = max\n   o[\"min\"] = min\n   return o\n}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n   var exact: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ideal: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDoubleRange(exact: Double? = undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined): ConstrainDoubleRange

 {\n   val o = js(\"({})\")\n   o[\"exact\"] = exact\n   o[\"ideal\"] = ideal\n   o[\"max\"] = max\n   o[\"min\"] = min\n   return o\n}\n\npublic external interface ULongRange {\n   var max: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n   var min: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined, min: Int? = undefined): ULongRange {\n   val o = js(\"({})\")\n   o[\"max\"] = max\n   o[\"min\"] = min\n   return o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n   var exact: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ideal: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic

 inline fun ConstrainULongRange(exact: Int? = undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n   val o = js(\"({})\")\n   o[\"exact\"] = exact\n   o[\"ideal\"] = ideal\n   o[\"max\"] = max\n   o[\"min\"] = min\n   return o\n}\n\n/**\n * Exposes the JavaScript [ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to Kotlin\n */\npublic external interface ConstrainBooleanParameters {\n   var exact: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ideal: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainBooleanParameters(exact: Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\n   val o = js(\"({})\")\n   o[\"exact\"] = exact\n   o[\"ideal\"]

 = ideal\n   return o\n}\n\n/**\n * Exposes the JavaScript [ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to Kotlin\n */\npublic external interface ConstrainDOMStringParameters {\n   var exact: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var ideal: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {\n   val o = js(\"({})\")\n   o[\"exact\"] = exact\n   o[\"ideal\"] = ideal\n   return o\n}\n\npublic external interface Capabilities\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n   val o = js(\"({})\")\n   return o\n}\n\npublic

 external interface Settings\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n   val o = js(\"({})\")\n   return o\n}\n\npublic external interface ConstraintSet\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n

val o = js(\"({})\")\n   return o\n}\n\npublic external interface Constraints : ConstraintSet {\n   var advanced: Array<ConstraintSet>?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced: Array<ConstraintSet>? = undefined): Constraints {\n   val o = js(\"({})\")\n   o[\"advanced\"] = advanced\n   return o\n}\n\n/* please, don't implement this interface! *\/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaStreamTrackState {\n   companion object\n}\n\npublic inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() = \"live\".asDynamic().unsafeCast<MediaStreamTrackState>()\n\npublic inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = \"ended\".asDynamic().unsafeCast<MediaStreamTrackState>()\n\n/* please, don't implement this interface! *\/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface VideoFacingModeEnum {\n   companion object\n}\n\npublic inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = \"user\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() = \"environment\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = \"left\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() = \"right\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\n/* please, don't implement this interface! *\/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface VideoResizeModeEnum {\n   companion object\n}\n\npublic inline val VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() = \"none\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\npublic inline val VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = \"crop-and-scale\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\n/* please, don't implement this interface! *\/\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaDeviceKind {\n   companion object\n}\n\npublic inline val MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() = \"audioinput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() = \"audiooutput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() = \"videoinput\".asDynamic().unsafeCast<MediaDeviceKind>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\/\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediasource\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript [MediaSource](https://developer.mozilla.org/en/docs/Web/API/MediaSource) to Kotlin\n *\/\npublic external open class MediaSource : EventTarget, MediaProvider {\n   open val sourceBuffers: SourceBufferList\n   open val activeSourceBuffers: SourceBufferList\n   open val readyState: ReadyState\n   var duration: Double\n   var onsourceopen: ((Event) -> dynamic)?\n   var onsourceended: ((Event) -> dynamic)?\n   var onsourceclose: ((Event) -> dynamic)?\n   fun addSourceBuffer(type: String): SourceBuffer\n   fun removeSourceBuffer(sourceBuffer: SourceBuffer)\n   fun endOfStream(error: EndOfStreamError = definedExternally)\n   fun setLiveSeekableRange(start: Double, end: Double)\n   fun clearLiveSeekableRange()\n\n   companion object {\n   fun isTypeSupported(type: String): Boolean\n   }\n}\n\n/**\n * Exposes the JavaScript

[SourceBuffer](https://developer.mozilla.org/en/docs/Web/API/SourceBuffer) to Kotlin\n *\npublic external abstract class SourceBuffer : EventTarget {\n   open var mode: AppendMode\n   open val updating: Boolean\n   open val buffered: TimeRanges\n   open var timestampOffset: Double\n   open val audioTracks: AudioTrackList\n   open val videoTracks: VideoTrackList\n   open val textTracks: TextTrackList\n   open var appendWindowStart: Double\n

    open var appendWindowEnd: Double\n   open var onupdatestart: ((Event) -> dynamic)?\n   open var onupdate: ((Event) -> dynamic)?\n   open var onupdateend: ((Event) -> dynamic)?\n   open var onerror: ((Event) -> dynamic)?\n   open var onabort: ((Event) -> dynamic)?\n   fun appendBuffer(data: dynamic)\n   fun abort()\n   fun remove(start: Double, end: Double)\n}\n\n/**\n * Exposes the JavaScript [SourceBufferList](https://developer.mozilla.org/en/docs/Web/API/SourceBufferList) to Kotlin\n *\npublic external abstract class SourceBufferList : EventTarget {\n   open val length: Int\n   open var onaddsourcebuffer: ((Event) -> dynamic)?\n   open var onremovesourcebuffer: ((Event) -> dynamic)?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SourceBufferList.get(index: Int): SourceBuffer? = asDynamic()[index]\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ReadyState {\n   companion object\n}\n\npublic inline val ReadyState.Companion.CLOSED: ReadyState get() = \"closed\".asDynamic().unsafeCast<ReadyState>()\npublic inline val ReadyState.Companion.OPEN: ReadyState get() = \"open\".asDynamic().unsafeCast<ReadyState>()\npublic inline val ReadyState.Companion.ENDED: ReadyState get() = \"ended\".asDynamic().unsafeCast<ReadyState>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface EndOfStreamError {\n   companion object\n}\n\npublic inline val EndOfStreamError.Companion.NETWORK: EndOfStreamError get() = \"network\".asDynamic().unsafeCast<EndOfStreamError>()\npublic inline val EndOfStreamError.Companion.DECODE: EndOfStreamError get() = \"decode\".asDynamic().unsafeCast<EndOfStreamError>()\n\n/* please, don't implement this interface! *\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface AppendMode {\n   companion object\n}\n\npublic inline val AppendMode.Companion.SEGMENTS: AppendMode get() = \"segments\".asDynamic().unsafeCast<AppendMode>()\npublic inline val AppendMode.Companion.SEQUENCE: AppendMode get() = \"sequence\".asDynamic().unsafeCast<AppendMode>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface PointerEventInit : MouseEventInit {\n   var pointerId: Int? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var width: Double? /* = 1.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var height: Double? /* = 1.0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var pressure: Float? /* = 0f */\n   get() = definedExternally\n   set(value) = definedExternally\n   var tangentialPressure: Float? /* = 0f */\n   get() = definedExternally\n   set(value) = definedExternally\n   var tiltX: Int? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var tiltY: Int? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var twist: Int? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var pointerType: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var isPrimary: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic

inline fun PointerEventInit(pointerId: Int? = 0, width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0, tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = \"\", isPrimary: Boolean? = false, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean?

= false, cancelable: Boolean? = false, composed: Boolean? = false): PointerEventInit {\n   val o = js(\"({})\")\n o[\"pointerId\"] = pointerId\n   o[\"width\"] = width\n   o[\"height\"] = height\n   o[\"pressure\"] = pressure\n o[\"tangentialPressure\"] = tangentialPressure\n   o[\"tiltX\"] = tiltX\n   o[\"tiltY\"] = tiltY\n   o[\"twist\"] = twist\n o[\"pointerType\"] = pointerType\n   o[\"isPrimary\"] = isPrimary\n   o[\"screenX\"] = screenX\n   o[\"screenY\"] = screenY\n   o[\"clientX\"] = clientX\n   o[\"clientY\"] = clientY\n   o[\"button\"] = button\n   o[\"buttons\"] = buttons\n   o[\"relatedTarget\"] = relatedTarget\n   o[\"region\"] = region\n   o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n   o[\"altKey\"] = altKey\n   o[\"metaKey\"] = metaKey\n   o[\"modifierAltGraph\"] = modifierAltGraph\n   o[\"modifierCapsLock\"] = modifierCapsLock\n   o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n   o[\"modifierHyper\"]

= modifierHyper\n   o[\"modifierNumLock\"] = modifierNumLock\n   o[\"modifierScrollLock\"] = modifierScrollLock\n   o[\"modifierSuper\"] = modifierSuper\n   o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n   o[\"view\"] = view\n   o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n */\npublic external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\n   open val pointerId: Int\n   open val width: Double\n   open val height: Double\n   open val pressure: Float\n   open val tangentialPressure: Float\n   open val tiltX: Int\n   open val tiltY: Int\n   open val twist: Int\n   open val pointerType: String\n   open val isPrimary: Boolean\n\n   companion object {\n

        val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.css.*\n\n/**\n * Exposes the JavaScript [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n */\npublic external abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n   open val dataset: DOMStringMap\n   open val ownerSVGElement: SVGSVGElement?\n   open val viewportElement: SVGElement?\n   open var tabIndex: Int\n   fun focus()\n   fun blur()\n\n

    companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external interface SVGBoundingBoxOptions {\n   var fill: Boolean? /* = true */\n   get() = definedExternally\n   set(value) =

definedExternally\n   var stroke: Boolean? /* = false */\n   get()

 = definedExternally\n   set(value) = definedExternally\n   var markers: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var clipped: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun SVGBoundingBoxOptions(fill: Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {\n   val o = js(\"({})\")\n   o[\"fill\"] = fill\n   o[\"stroke\"] = stroke\n   o[\"markers\"] = markers\n   o[\"clipped\"] = clipped\n   return o\n}\n\n/**\n * Exposes the JavaScript [SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n */\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n   open val transform: SVGAnimatedTransformList\n   fun getBBox(options:

 SVGBoundingBoxOptions = definedExternally): DOMRect\n   fun getCTM(): DOMMatrix?\n   fun getScreenCTM(): DOMMatrix?\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement)

 to Kotlin\n */\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\n   open val pathLength: SVGAnimatedNumber\n   fun isPointInFill(point: DOMPoint): Boolean\n   fun isPointInStroke(point: DOMPoint): Boolean\n   fun getTotalLength(): Float\n   fun getPointAtLength(distance: Float): DOMPoint\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n */\npublic external abstract class SVGNumber {\n   open var value: Float\n}\n\n/**\n * Exposes the JavaScript [SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n */\npublic external abstract class SVGLength {\n   open val unitType: Short\n   open var value: Float\n   open var valueInSpecifiedUnits: Float\n   open var valueAsString: String\n   fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)\n   fun convertToSpecifiedUnits(unitType: Short)\n\n   companion object {\n   val SVG_LENGTHTYPE_UNKNOWN: Short\n   val SVG_LENGTHTYPE_NUMBER: Short\n   val SVG_LENGTHTYPE_PERCENTAGE: Short\n   val SVG_LENGTHTYPE_EMS: Short\n   val SVG_LENGTHTYPE_EXS: Short\n   val SVG_LENGTHTYPE_PX:

 Short\n   val SVG_LENGTHTYPE_CM: Short\n   val SVG_LENGTHTYPE_MM: Short\n   val SVG_LENGTHTYPE_IN: Short\n   val SVG_LENGTHTYPE_PT: Short\n   val SVG_LENGTHTYPE_PC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n */\npublic external abstract

class SVGAngle {\n   open val unitType: Short\n   open var value: Float\n   open var valueInSpecifiedUnits: Float\n   open var valueAsString: String\n   fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)\n   fun convertToSpecifiedUnits(unitType: Short)\n\n   companion object {\n   val SVG_ANGLETYPE_UNKNOWN: Short\n   val SVG_ANGLETYPE_UNSPECIFIED: Short\n   val SVG_ANGLETYPE_DEG: Short\n   val SVG_ANGLETYPE_RAD: Short\n   val SVG_ANGLETYPE_GRAD: Short\n   }\n}\n\npublic external abstract class SVGNameList {\n   open val length: Int\n   open val numberOfItems: Int\n   fun clear()\n

    fun initialize(newItem: dynamic): dynamic\n   fun insertItemBefore(newItem: dynamic, index: Int): dynamic\n   fun replaceItem(newItem: dynamic, index: Int): dynamic\n   fun removeItem(index: Int): dynamic\n   fun appendItem(newItem: dynamic): dynamic\n   fun getItem(index: Int): dynamic\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.get(index: Int): dynamic = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.set(index: Int, newItem: dynamic) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\n */\npublic external abstract class SVGNumberList {\n   open val length: Int\n   open val numberOfItems: Int\n   fun clear()\n   fun initialize(newItem: SVGNumber): SVGNumber\n   fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber\n   fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n   fun removeItem(index: Int): SVGNumber\n   fun appendItem(newItem: SVGNumber): SVGNumber\n   fun getItem(index: Int): SVGNumber\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.set(index: Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n */\npublic external abstract class SVGLengthList {\n   open val length: Int\n   open val numberOfItems: Int\n   fun clear()\n   fun initialize(newItem: SVGLength): SVGLength\n   fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength\n

    fun replaceItem(newItem: SVGLength, index: Int): SVGLength\n   fun removeItem(index: Int): SVGLength\n   fun appendItem(newItem: SVGLength): SVGLength\n   fun getItem(index: Int): SVGLength\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n */\npublic external abstract class SVGAnimatedBoolean {\n   open var baseVal: Boolean\n   open val animVal: Boolean\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin\n */\npublic external abstract

 class SVGAnimatedEnumeration {\n   open var baseVal: Short\n   open val animVal: Short\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n */\npublic external abstract class SVGAnimatedInteger {\n   open var baseVal: Int\n   open val animVal: Int\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n */\npublic external abstract class SVGAnimatedNumber {\n   open var baseVal: Float\n   open val animVal: Float\n}\n\n/**\n * Exposes the JavaScript

[SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n
*/\npublic external abstract class SVGAnimatedLength {\n   open val baseVal: SVGLength\n   open val animVal:
SVGLength\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n */\npublic
external abstract

 class SVGAnimatedAngle {\n   open val baseVal: SVGAngle\n   open val animVal: SVGAngle\n}\n\n/**\n *
Exposes the JavaScript
[SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n */\npublic
external abstract class SVGAnimatedString {\n   open var baseVal: String\n   open val animVal: String\n}\n\n/**\n
* Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect)
to Kotlin\n */\npublic external abstract class SVGAnimatedRect {\n   open val baseVal: DOMRect\n   open val
animVal: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n
*/\npublic external abstract class SVGAnimatedNumberList {\n   open val baseVal: SVGNumberList\n   open val
animVal: SVGNumberList\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to
 Kotlin\n */\npublic external abstract class SVGAnimatedLengthList {\n   open val baseVal: SVGLengthList\n
open val animVal: SVGLengthList\n}\n\n/**\n * Exposes the JavaScript
[SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n */\npublic external
abstract class SVGStringList {\n   open val length: Int\n   open val numberOfItems: Int\n   fun clear()\n   fun
initialize(newItem: String): String\n   fun insertItemBefore(newItem: String, index: Int): String\n   fun
replaceItem(newItem: String, index: Int): String\n   fun removeItem(index: Int): String\n   fun
appendItem(newItem: String): String\n   fun getItem(index: Int):
String\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.get(index:
Int): String? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.set(index:
 Int, newItem: String) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface SVGUnitTypes
{\n   companion object {\n   val SVG_UNIT_TYPE_UNKNOWN: Short\n   val
SVG_UNIT_TYPE_USERSPACEONUSE: Short\n   val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin\n */\npublic external interface
SVGTests {\n   val requiredExtensions: SVGStringList\n   val systemLanguage: SVGStringList\n}\n\npublic
external interface SVGFitToViewBox {\n   val viewBox: SVGAnimatedRect\n   val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
 external interface SVGZoomAndPan {\n   var zoomAndPan: Short\n\n   companion object {\n   val
SVG_ZOOMANDPAN_UNKNOWN: Short\n   val SVG_ZOOMANDPAN_DISABLE: Short\n   val
SVG_ZOOMANDPAN_MAGNIFY: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n */\npublic
external interface SVGURIReference {\n   val href: SVGAnimatedString\n}\n\n/**\n * Exposes the JavaScript
[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n */\npublic
external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan,
WindowEventHandlers {\n   open val x: SVGAnimatedLength\n   open val y: SVGAnimatedLength\n   open val
width: SVGAnimatedLength\n   open val height: SVGAnimatedLength\n   open var currentScale: Float\n   open

val currentTranslate: DOMPointReadOnly\n   fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n   fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n   fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n   fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n   fun deselectAll()\n   fun createSVGNumber(): SVGNumber\n   fun createSVGLength(): SVGLength\n   fun createSVGAngle(): SVGAngle\n   fun createSVGPoint(): DOMPoint\n   fun createSVGMatrix(): DOMMatrix\n   fun createSVGRect(): DOMRect\n   fun createSVGTransform(): SVGTransform\n   fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n   fun getElementById(elementId: String): Element\n   fun suspendRedraw(maxWaitMilliseconds: Int): Int\n   fun unsuspendRedraw(suspendHandleID: Int)\n   fun unsuspendRedrawAll()\n   fun forceRedraw()\n\n   companion object {\n   val SVG_ZOOMANDPAN_UNKNOWN: Short\n   val SVG_ZOOMANDPAN_DISABLE: Short\n   val SVG_ZOOMANDPAN_MAGNIFY:
 Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\n */\npublic external abstract class SVGGElement : SVGGraphicsElement {\n   companion object {\n   val ELEMENT_NODE:
 Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class SVGUnknownElement : SVGGraphicsElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE:
 Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\n */\npublic external abstract class SVGDefsElement : SVGGraphicsElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n

val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\n */\npublic external abstract class SVGDescElement : SVGElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n */\npublic external abstract class SVGMetadataElement : SVGElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n */\npublic external abstract class SVGTitleElement : SVGElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\n */\npublic external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n

val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n */\npublic external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n   open val x: SVGAnimatedLength\n   open val y: SVGAnimatedLength\n   open val width: SVGAnimatedLength\n   open val height: SVGAnimatedLength\n   open val instanceRoot: SVGElement?\n   open val animatedInstanceRoot: SVGElement?\n\n   companion object {\n

    val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external open class SVGUseElementShadowRoot : ShadowRoot {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE:

 Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external interface SVGElementInstance {\n   val correspondingElement: SVGElement?\n   get() = definedExternally\n   val correspondingUseElement: SVGUseElement?\n   get() = definedExternally\n}\n\npublic external open class ShadowAnimation(source: dynamic, newTarget: dynamic) {\n   open val sourceAnimation: dynamic\n}\n\n/**\n * Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin\n */\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external interface GetSVGDocument {\n   fun getSVGDocument():

 Document\n}\n\n/**\n * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n */\npublic external abstract class SVGStyleElement : SVGElement, LinkStyle {\n   open var type: String\n   open var media: String\n   open var title: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val

DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
  val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
  val DOCUMENT_POSITION_CONTAINED_BY:
 Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes
the JavaScript [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform) to Kotlin\n
*/\npublic external abstract class SVGTransform {\n   open val type: Short\n   open val matrix: DOMMatrix\n
open val angle: Float\n   fun setMatrix(matrix: DOMMatrixReadOnly)\n   fun setTranslate(tx: Float, ty: Float)\n
fun setScale(sx: Float, sy: Float)\n   fun setRotate(angle: Float, cx: Float, cy: Float)\n   fun setSkewX(angle:
Float)\n   fun setSkewY(angle: Float)\n\n   companion object {\n   val SVG_TRANSFORM_UNKNOWN:
Short\n   val SVG_TRANSFORM_MATRIX: Short\n   val SVG_TRANSFORM_TRANSLATE: Short\n
val SVG_TRANSFORM_SCALE: Short\n   val SVG_TRANSFORM_ROTATE: Short\n   val
SVG_TRANSFORM_SKEWX: Short\n   val SVG_TRANSFORM_SKEWY: Short\n   }\n}\n\n/**\n * Exposes
the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList)
 to Kotlin\n */\npublic external abstract class SVGTransformList {\n   open val length: Int\n   open val
numberOfItems: Int\n   fun clear()\n   fun initialize(newItem: SVGTransform): SVGTransform\n   fun
insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform\n   fun replaceItem(newItem:
SVGTransform, index: Int): SVGTransform\n   fun removeItem(index: Int): SVGTransform\n   fun
appendItem(newItem: SVGTransform): SVGTransform\n   fun createSVGTransformFromMatrix(matrix:
DOMMatrixReadOnly): SVGTransform\n   fun consolidate(): SVGTransform?\n   fun getItem(index: Int):
SVGTransform\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.get(index:
Int): SVGTransform? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.set(index:
Int, newItem: SVGTransform)
 { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to
Kotlin\n */\npublic external abstract class SVGAnimatedTransformList {\n   open val baseVal:
SVGTransformList\n   open val animVal: SVGTransformList\n}\n\n/**\n * Exposes the JavaScript
[SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\n
*/\npublic external abstract class SVGPreserveAspectRatio {\n   open var align: Short\n   open var meetOrSlice:
Short\n\n   companion object {\n   val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n   val
SVG_PRESERVEASPECTRATIO_NONE: Short\n   val SVG_PRESERVEASPECTRATIO_XMINYMIN:
Short\n   val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n   val
SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n   val
SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n   val
SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n   val
SVG_PRESERVEASPECTRATIO_XMAXYMID:
 Short\n   val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n   val
SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n   val
SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n   val SVG_MEETORSLICE_UNKNOWN: Short\n
   val SVG_MEETORSLICE_MEET: Short\n   val SVG_MEETORSLICE_SLICE: Short\n   }\n}\n\n/**\n *
Exposes the JavaScript
[SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect
Ratio) to Kotlin\n */\npublic external abstract class SVGAnimatedPreserveAspectRatio {\n   open val baseVal:
SVGPreserveAspectRatio\n   open val animVal: SVGPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n */\npublic

external abstract class SVGPathElement : SVGGeometryElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE:
 Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\n */\npublic external abstract class SVGRectElement : SVGGeometryElement {\n   open val x: SVGAnimatedLength\n   open val y: SVGAnimatedLength\n   open val width: SVGAnimatedLength\n   open val height: SVGAnimatedLength\n   open val rx: SVGAnimatedLength\n
    open val ry: SVGAnimatedLength\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin\n */\npublic external abstract class SVGCircleElement
 : SVGGeometryElement {\n   open val cx: SVGAnimatedLength\n   open val cy: SVGAnimatedLength\n   open val r: SVGAnimatedLength\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement)
 to Kotlin\n */\npublic external abstract class SVGEllipseElement : SVGGeometryElement {\n   open val cx: SVGAnimatedLength\n   open val cy: SVGAnimatedLength\n   open val rx: SVGAnimatedLength\n   open val ry: SVGAnimatedLength\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n

val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n

val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin\n */\npublic external abstract class SVGLineElement : SVGGeometryElement {\n   open val x1: SVGAnimatedLength\n   open val y1: SVGAnimatedLength\n   open val x2: SVGAnimatedLength\n   open val y2: SVGAnimatedLength\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement) to Kotlin\n */\npublic external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\n */\npublic external interface SVGAnimatedPoints {\n   val points: SVGPointList\n   val animatedPoints: SVGPointList\n}\n\npublic external abstract class SVGPointList {\n   open val length: Int\n   open val numberOfItems: Int\n   fun clear()\n   fun initialize(newItem: DOMPoint): DOMPoint\n   fun insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint\n   fun replaceItem(newItem: DOMPoint, index: Int): DOMPoint\n   fun removeItem(index: Int): DOMPoint\n   fun appendItem(newItem: DOMPoint): DOMPoint\n   fun getItem(index: Int): DOMPoint\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\n */\npublic external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n

val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to Kotlin\n */\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\n companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED:
Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\n */\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\n   open val textLength: SVGAnimatedLength\n   open val lengthAdjust: SVGAnimatedEnumeration\n   fun getNumberOfChars(): Int\n fun getComputedTextLength(): Float\n   fun getSubStringLength(charnum: Int, nchars: Int): Float\n   fun getStartPositionOfChar(charnum: Int): DOMPoint\n   fun getEndPositionOfChar(charnum: Int): DOMPoint\n   fun getExtentOfChar(charnum: Int): DOMRect\n   fun getRotationOfChar(charnum: Int): Float\n   fun getCharNumAtPosition(point: DOMPoint): Int\n   fun selectSubString(charnum:
Int, nchars: Int)\n\n   companion object {\n   val LENGTHADJUST_UNKNOWN: Short\n   val LENGTHADJUST_SPACING: Short\n   val LENGTHADJUST_SPACINGANDGLYPHS: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement)
to Kotlin\n */\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\n   open val x: SVGAnimatedLengthList\n   open val y: SVGAnimatedLengthList\n   open val dx: SVGAnimatedLengthList\n   open val dy: SVGAnimatedLengthList\n   open val rotate: SVGAnimatedNumberList\n\n   companion object {\n   val LENGTHADJUST_UNKNOWN: Short\n   val LENGTHADJUST_SPACING: Short\n   val LENGTHADJUST_SPACINGANDGLYPHS: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin\n */\npublic external abstract class SVGTextElement : SVGTextPositioningElement {\n   companion object {\n   val LENGTHADJUST_UNKNOWN: Short\n   val LENGTHADJUST_SPACING: Short\n   val LENGTHADJUST_SPACINGANDGLYPHS: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n

    val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\n */\npublic external abstract class SVGTSpanElement : SVGTextPositioningElement {\n   companion object {\n   val LENGTHADJUST_UNKNOWN: Short\n   val LENGTHADJUST_SPACING: Short\n   val LENGTHADJUST_SPACINGANDGLYPHS: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n

        val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\n */\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n   open val startOffset: SVGAnimatedLength\n   open val method: SVGAnimatedEnumeration\n   open val spacing: SVGAnimatedEnumeration\n\n   companion object {\n   val TEXTPATH_METHODTYPE_UNKNOWN: Short\n   val

 TEXTPATH_METHODTYPE_ALIGN: Short\n   val TEXTPATH_METHODTYPE_STRETCH: Short\n   val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\n   val TEXTPATH_SPACINGTYPE_AUTO: Short\n   val TEXTPATH_SPACINGTYPE_EXACT: Short\n   val LENGTHADJUST_UNKNOWN: Short\n   val LENGTHADJUST_SPACING: Short\n   val LENGTHADJUST_SPACINGANDGLYPHS: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n

    val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n */\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference,

HTMLOrSVGImageElement {\n   open val x: SVGAnimatedLength\n   open val y: SVGAnimatedLength\n   open val width: SVGAnimatedLength\n   open val height: SVGAnimatedLength\n   open val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n   open var crossOrigin: String?\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin\n */\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\n   open val x: SVGAnimatedLength\n   open val y: SVGAnimatedLength\n   open val width: SVGAnimatedLength\n   open val height: SVGAnimatedLength\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {\n   open val refX: SVGAnimatedLength\n   open val refY: SVGAnimatedLength\n   open val markerUnits: SVGAnimatedEnumeration\n   open val markerWidth: SVGAnimatedLength\n   open val markerHeight: SVGAnimatedLength\n   open val orientType: SVGAnimatedEnumeration\n   open val orientAngle: SVGAnimatedAngle\n   open var orient: String\n   fun setOrientToAuto()\n   fun setOrientToAngle(angle: SVGAngle)\n\n   companion object {\n   val SVG_MARKERUNITS_UNKNOWN: Short\n   val SVG_MARKERUNITS_USERSPACEONUSE: Short\n   val SVG_MARKERUNITS_STROKEWIDTH: Short\n   val SVG_MARKER_ORIENT_UNKNOWN: Short\n   val SVG_MARKER_ORIENT_AUTO: Short\n   val SVG_MARKER_ORIENT_ANGLE: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin\n */\npublic external abstract class SVGSolidcolorElement : SVGElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val

DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY:
Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\n */\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\n   open val gradientUnits: SVGAnimatedEnumeration\n   open val gradientTransform: SVGAnimatedTransformList\n   open val spreadMethod: SVGAnimatedEnumeration\n\n   companion object {\n   val SVG_SPREADMETHOD_UNKNOWN: Short\n   val SVG_SPREADMETHOD_PAD: Short\n   val SVG_SPREADMETHOD_REFLECT: Short\n   val SVG_SPREADMETHOD_REPEAT: Short\n   val SVG_UNIT_TYPE_UNKNOWN: Short\n   val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n   val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE:
Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin\n */\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n   open val x1: SVGAnimatedLength\n   open val y1: SVGAnimatedLength\n   open val x2: SVGAnimatedLength\n   open val y2: SVGAnimatedLength\n\n   companion object {\n   val SVG_SPREADMETHOD_UNKNOWN: Short\n   val SVG_SPREADMETHOD_PAD: Short\n   val SVG_SPREADMETHOD_REFLECT: Short\n   val SVG_SPREADMETHOD_REPEAT: Short\n   val SVG_UNIT_TYPE_UNKNOWN: Short\n   val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n   val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin\n */\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\n   open val cx: SVGAnimatedLength\n   open val cy: SVGAnimatedLength\n   open val r: SVGAnimatedLength\n   open val fx: SVGAnimatedLength\n   open val fy: SVGAnimatedLength\n   open val fr: SVGAnimatedLength\n\n   companion object {\n   val SVG_SPREADMETHOD_UNKNOWN: Short\n   val SVG_SPREADMETHOD_PAD: Short\n   val SVG_SPREADMETHOD_REFLECT: Short\n   val SVG_SPREADMETHOD_REPEAT: Short\n   val SVG_UNIT_TYPE_UNKNOWN: Short\n   val SVG_UNIT_TYPE_USERSPACEONUSE:

Short\n   val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n   val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n
 val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val
PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
     val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class
SVGMeshGradientElement : SVGGradientElement {\n   companion object {\n   val
SVG_SPREADMETHOD_UNKNOWN: Short\n   val SVG_SPREADMETHOD_PAD: Short\n   val
SVG_SPREADMETHOD_REFLECT: Short\n   val SVG_SPREADMETHOD_REPEAT: Short\n   val
SVG_UNIT_TYPE_UNKNOWN: Short\n   val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n   val
SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:
 Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n
     val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val
ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE:
Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
     val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class
SVGMeshrowElement : SVGElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val
ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE:
 Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val
PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
     val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class
SVGMeshpatchElement : SVGElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val
ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val
ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val
PROCESSING_INSTRUCTION_NODE: Short\n
     val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE:
Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
     val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin\n */\npublic
external abstract class SVGStopElement : SVGElement {\n   open val offset: SVGAnimatedNumber\n\n
companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val
TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE:

Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin\n */\npublic external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference, SVGUnitTypes {\n   open val patternUnits: SVGAnimatedEnumeration\n   open val patternContentUnits: SVGAnimatedEnumeration\n   open val patternTransform: SVGAnimatedTransformList\n   open val x: SVGAnimatedLength\n   open val y: SVGAnimatedLength\n   open val width: SVGAnimatedLength\n   open val height: SVGAnimatedLength\n\n   companion object {\n   val SVG_UNIT_TYPE_UNKNOWN: Short\n   val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n   val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class SVGHatchElement : SVGElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class SVGHatchpathElement : SVGElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\n */\npublic external abstract class SVGCursorElement : SVGElement, SVGURIReference {\n   open val x: SVGAnimatedLength\n   open val y: SVGAnimatedLength\n\n   companion

object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\n */\npublic external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {\n   open var type: String\n   open var crossOrigin: String?\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin\n */\npublic external abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {\n   open val target: SVGAnimatedString\n   open val download: SVGAnimatedString\n   open val rel: SVGAnimatedString\n   open val relList: SVGAnimatedString\n   open val hreflang: SVGAnimatedString\n   open val type: SVGAnimatedString\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\n */\npublic external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\n   companion object {\n   val SVG_ZOOMANDPAN_UNKNOWN: Short\n   val SVG_ZOOMANDPAN_DISABLE: Short\n   val SVG_ZOOMANDPAN_MAGNIFY: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}","/*\n * Copyright 2010-2021

JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.files\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\n */\npublic external open class Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) : MediaProvider, ImageBitmapSource {\n   open val size: Number\n   open val type: String\n

    open val isClosed: Boolean\n   fun slice(start: Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally): Blob\n   fun close()\n}\n\npublic external interface BlobPropertyBag {\n   var type: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun BlobPropertyBag(type: String? = \"\"): BlobPropertyBag {\n   val o = js(\"({})\")\n   o[\"type\"] = type\n   return o\n}\n\n/**\n * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\n */\npublic external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {\n   open val name: String\n   open val lastModified: Int\n}\n\npublic external interface FilePropertyBag : BlobPropertyBag {\n   var lastModified: Int?\n   get() = definedExternally\n

        set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FilePropertyBag(lastModified: Int? = undefined, type: String? = \"\"): FilePropertyBag {\n   val o = js(\"({})\")\n   o[\"lastModified\"] = lastModified\n   o[\"type\"] = type\n   return o\n}\n\n/**\n * Exposes the JavaScript [FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin\n */\npublic external abstract class FileList : ItemArrayLike<File> {\n   override fun item(index: Int): File?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun FileList.get(index: Int): File? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\n */\npublic external open class FileReader : EventTarget {\n   open val readyState: Short\n   open val result: dynamic\n   open val error: dynamic\n   var onloadstart: ((ProgressEvent) -> dynamic)?\n   var onprogress: ((ProgressEvent) -> dynamic)?\n   var onload: ((Event) -> dynamic)?\n   var onabort: ((Event) -> dynamic)?\n   var onerror: ((Event) -> dynamic)?\n   var onloadend: ((Event) -> dynamic)?\n   fun readAsArrayBuffer(blob: Blob)\n   fun readAsBinaryString(blob: Blob)\n   fun readAsText(blob: Blob, label: String = definedExternally)\n   fun readAsDataURL(blob: Blob)\n   fun abort()\n\n   companion object {\n   val EMPTY: Short\n   val LOADING: Short\n   val DONE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\n */\npublic external open class FileReaderSync {\n   fun readAsArrayBuffer(blob: Blob): ArrayBuffer\n   fun readAsBinaryString(blob: Blob): String\n   fun readAsText(blob: Blob, label: String = definedExternally): String\n   fun readAsDataURL(blob: Blob): String\n}","/*\n * Copyright

 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.notifications\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.events.*\nimport org.w3c.workers.*\n\n/**\n * Exposes the JavaScript [Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\n */\npublic external open class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {\n   var onclick: ((MouseEvent) -> dynamic)?\n   var onerror: ((Event) -> dynamic)?\n   open val title: String\n   open val dir: NotificationDirection\n   open val lang: String\n   open val body: String\n   open val tag: String\n   open val

image: String\n   open val icon: String\n   open val badge: String\n
 open val sound: String\n   open val vibrate: Array<out Int>\n   open val timestamp: Number\n   open val renotify: Boolean\n   open val silent: Boolean\n   open val noscreen: Boolean\n   open val requireInteraction: Boolean\n open val sticky: Boolean\n   open val data: Any?\n   open val actions: Array<out NotificationAction>\n   fun close()\n\n   companion object {\n   val permission: NotificationPermission\n   val maxActions: Int\n   fun requestPermission(deprecatedCallback: (NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>\n   }\n}\n\npublic external interface NotificationOptions {\n   var dir: NotificationDirection? /* = NotificationDirection.AUTO */\n   get() = definedExternally\n   set(value) = definedExternally\n   var lang: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var body: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var tag: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var image: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var icon: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var badge: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var sound: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var vibrate: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var timestamp: Number?\n   get() = definedExternally\n   set(value) = definedExternally\n   var renotify: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var silent: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var noscreen: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var requireInteraction: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var sticky: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var data: Any? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var actions: Array<NotificationAction>? /* = arrayOf() */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationOptions(dir: NotificationDirection? = NotificationDirection.AUTO, lang: String? = \"\", body: String? = \"\", tag: String? = \"\", image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined, vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? = false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null, actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {\n   val o = js(\"({})\")\n   o[\"dir\"] = dir\n   o[\"lang\"] = lang\n   o[\"body\"] = body\n   o[\"tag\"] = tag\n   o[\"image\"] = image\n   o[\"icon\"] = icon\n   o[\"badge\"] = badge\n   o[\"sound\"] = sound\n   o[\"vibrate\"] = vibrate\n   o[\"timestamp\"] = timestamp\n   o[\"renotify\"] = renotify\n   o[\"silent\"] = silent\n   o[\"noscreen\"] = noscreen\n   o[\"requireInteraction\"] = requireInteraction\n   o[\"sticky\"] = sticky\n   o[\"data\"] = data\n   o[\"actions\"] = actions\n   return o\n}\n\npublic external interface NotificationAction {\n   var action: String?\n   var title: String?\n   var icon: String?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationAction(action: String?, title: String?, icon: String? = undefined): NotificationAction {\n   val o = js(\"({})\")\n   o[\"action\"] = action\n   o[\"title\"] = title\n   o[\"icon\"] = icon\n   return o\n}\n\npublic external interface GetNotificationOptions {\n   var tag: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag: String? = \"\"): GetNotificationOptions {\n   val o = js(\"({})\")\n   o[\"tag\"] = tag\n   return o\n}\n\n/**\n * Exposes the JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\n */\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) : ExtendableEvent {\n   open val notification: Notification\n

open val action: String\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface NotificationEventInit : ExtendableEventInit {\n   var notification: Notification?\n   var action: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationEventInit(notification: Notification?, action: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): NotificationEventInit {\n   val o = js(\"({})\")\n   o[\"notification\"] = notification\n   o[\"action\"] = action\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface NotificationPermission {\n   companion object\n}\n\npublic inline val NotificationPermission.Companion.DEFAULT: NotificationPermission get() = \"default\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val NotificationPermission.Companion.DENIED: NotificationPermission get() = \"denied\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() = \"granted\".asDynamic().unsafeCast<NotificationPermission>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface NotificationDirection {\n   companion object\n}\n\npublic inline val NotificationDirection.Companion.AUTO: NotificationDirection get() = \"auto\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val NotificationDirection.Companion.LTR: NotificationDirection get() = \"ltr\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val NotificationDirection.Companion.RTL: NotificationDirection get() = \"rtl\".asDynamic().unsafeCast<NotificationDirection>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.fetch.*\nimport org.w3c.notifications.*\n\n/**\n * Exposes the JavaScript [ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n */\npublic external abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n   open val scriptURL: String\n   open val state: ServiceWorkerState\n   open var onstatechange: ((Event) -> dynamic)?\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to Kotlin\n */\npublic external abstract class ServiceWorkerRegistration : EventTarget {\n   open val installing: ServiceWorker?\n   open val waiting: ServiceWorker?\n   open val active: ServiceWorker?\n   open val scope: String\n   open var onupdatefound: ((Event) -> dynamic)?\n   open val APISpace: dynamic\n   fun update(): Promise<Unit>\n   fun unregister(): Promise<Boolean>\n   fun showNotification(title: String, options: NotificationOptions = definedExternally): Promise<Unit>\n   fun getNotifications(filter: GetNotificationOptions = definedExternally): Promise<Array<Notification>>\n   fun methodName(): Promise<dynamic>\n}\n\n/**\n * Exposes the JavaScript [ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n */\npublic external abstract class ServiceWorkerContainer : EventTarget {\n   open val controller: ServiceWorker?\n   open val ready: Promise<ServiceWorkerRegistration>\n   open var oncontrollerchange: ((Event) -> dynamic)?\n   open var onmessage: ((MessageEvent) -> dynamic)?\n   fun register(scriptURL: String, options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n   fun

getRegistration(clientURL: String = definedExternally): Promise<Any?>\n   fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n   fun startMessages()\n}\n\npublic external interface
RegistrationOptions {\n   var scope: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var type: WorkerType? /* = WorkerType.CLASSIC */\n   get() = definedExternally\n   set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun RegistrationOptions(scope: String? =
undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\n   val o = js(\"({})\")\n
o[\"scope\"] = scope\n   o[\"type\"] = type\n   return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to
Kotlin\n */\npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict:
ServiceWorkerMessageEventInit = definedExternally) : Event {\n   open val data: Any?\n   open val origin:
String\n   open val lastEventId: String\n   open val source: UnionMessagePortOrServiceWorker?\n   open val
ports: Array<out MessagePort>?\n\n   companion object {\n   val NONE: Short\n   val
CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n
    var data: Any?\n   get() = definedExternally\n   set(value) = definedExternally\n   var origin: String?\n
get() = definedExternally\n   set(value) = definedExternally\n   var lastEventId: String?\n   get() =
definedExternally\n   set(value) = definedExternally\n   var source: UnionMessagePortOrServiceWorker?\n
get() = definedExternally\n   set(value) = definedExternally\n   var ports: Array<MessagePort>?\n   get() =
definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ServiceWorkerMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n   val o =
js(\"({})\")\n
    o[\"data\"] = data\n   o[\"origin\"] = origin\n   o[\"lastEventId\"] = lastEventId\n   o[\"source\"] = source\n
o[\"ports\"] = ports\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] =
composed\n   return o\n}\n\n/**\n * Exposes the JavaScript
[ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to
Kotlin\n */\npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n   open val clients:
Clients\n   open val registration: ServiceWorkerRegistration\n   open var oninstall: ((Event) -> dynamic)?\n   open
var onactivate: ((Event) -> dynamic)?\n   open var onfetch: ((FetchEvent) -> dynamic)?\n   open var
onforeignfetch: ((Event) -> dynamic)?\n   open var onmessage: ((MessageEvent) -> dynamic)?\n   open var
onnotificationclick: ((NotificationEvent) -> dynamic)?\n   open var onnotificationclose: ((NotificationEvent) ->
dynamic)?\n   open var onfunctionalevent: ((Event)
 -> dynamic)?\n   fun skipWaiting(): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n */\npublic external abstract class Client :
UnionClientOrMessagePortOrServiceWorker {\n   open val url: String\n   open val frameType: FrameType\n
open val id: String\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n
* Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to
Kotlin\n */\npublic external abstract class WindowClient : Client {\n   open val visibilityState: dynamic\n   open
val focused: Boolean\n   fun focus(): Promise<WindowClient>\n   fun navigate(url: String):
Promise<WindowClient>\n}\n\n/**\n * Exposes the JavaScript
[Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n */\npublic external abstract class
Clients {\n   fun get(id: String): Promise<Any?>\n   fun matchAll(options: ClientQueryOptions
 = definedExternally): Promise<Array<Client>>\n   fun openWindow(url: String): Promise<WindowClient?>\n
fun claim(): Promise<Unit>\n}\n\npublic external interface ClientQueryOptions {\n   var includeUncontrolled:
Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var type:

ClientType? /* = ClientType.WINDOW */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {\n   val o = js(\"({})\")\n   o[\"includeUncontrolled\"] = includeUncontrolled\n   o[\"type\"] = type\n   return o\n}\n\n/**\n * Exposes the JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n */\npublic external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {\n   fun waitUntil(f: Promise<Any?>)\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface ExtendableEventInit : EventInit\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableEventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\n   val o = js(\"({})\")\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n */\npublic external open class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n   fun registerForeignFetch(options: ForeignFetchOptions)\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface ForeignFetchOptions {\n   var scopes: Array<String>?\n   var origins: Array<String>?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {\n   val o = js(\"({})\")\n   o[\"scopes\"] = scopes\n   o[\"origins\"] = origins\n   return o\n}\n\n/**\n * Exposes the JavaScript [FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\n */\npublic external open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\n   open val request: Request\n   open val clientId: String?\n   open val isReload: Boolean\n   fun respondWith(r: Promise<Response>)\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface FetchEventInit : ExtendableEventInit {\n   var request: Request?\n   var clientId: String? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var isReload: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FetchEventInit {\n   val o = js(\"({})\")\n   o[\"request\"] = request\n   o[\"clientId\"] = clientId\n   o[\"isReload\"] = isReload\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\npublic external open class ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\n   open val request: Request\n   open val origin: String\n   fun respondWith(r: Promise<ForeignFetchResponse>)\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface ForeignFetchEventInit : ExtendableEventInit {\n   var request: Request?\n   var origin: String? /* = \"null\" */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchEventInit(request: Request?, origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ForeignFetchEventInit {\n   val o = js(\"({})\")\n   o[\"request\"] = request\n   o[\"origin\"] = origin\n

o[\"bubbles\"] = bubbles\n

   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\npublic external interface ForeignFetchResponse {\n   var response: Response?\n   var origin: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var headers: Array<String>?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\n   val o = js(\"({})\")\n   o[\"response\"] = response\n   o[\"origin\"] = origin\n   o[\"headers\"] = headers\n   return o\n}\n\n/**\n * Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\n */\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : ExtendableEvent {\n   open val data: Any?\n   open val origin: String\n   open val lastEventId: String\n   open val source: UnionClientOrMessagePortOrServiceWorker?\n   open val ports: Array<out MessagePort>?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface ExtendableMessageEventInit : ExtendableEventInit {\n   var data: Any?\n   get() = definedExternally\n   set(value) = definedExternally\n   var origin: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var lastEventId: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var source: UnionClientOrMessagePortOrServiceWorker?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ports: Array<MessagePort>?\n   get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source: UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit {\n   val o = js(\"({})\")\n   o[\"data\"] = data\n   o[\"origin\"] = origin\n   o[\"lastEventId\"] = lastEventId\n o[\"source\"] = source\n   o[\"ports\"] = ports\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\n */\npublic external abstract class Cache {\n   fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n   fun matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>\n   fun add(request: dynamic): Promise<Unit>\n   fun addAll(requests: Array<dynamic>): Promise<Unit>\n   fun put(request: dynamic, response: Response): Promise<Unit>\n   fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\n   fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Request>>\n}\n\npublic external interface CacheQueryOptions {\n   var ignoreSearch: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var ignoreMethod: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var ignoreVary: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var cacheName: String?\n get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CacheQueryOptions(ignoreSearch: Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined): CacheQueryOptions {\n   val o = js(\"({})\")\n   o[\"ignoreSearch\"] = ignoreSearch\n   o[\"ignoreMethod\"] = ignoreMethod\n   o[\"ignoreVary\"] = ignoreVary\n   o[\"cacheName\"] = cacheName\n   return o\n}\n\npublic external interface CacheBatchOperation {\n   var type: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var request: Request?\n   get() = definedExternally\n   set(value) = definedExternally\n

var response: Response?\n   get() = definedExternally\n   set(value) = definedExternally\n   var options: CacheQueryOptions?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CacheBatchOperation(type: String? = undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? = undefined): CacheBatchOperation {\n   val o = js(\"({})\")\n   o[\"type\"] = type\n   o[\"request\"] = request\n   o[\"response\"] = response\n   o[\"options\"] = options\n   return o\n}\n\n/**\n * Exposes the JavaScript [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n */\npublic external abstract class CacheStorage {\n   fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n   fun has(cacheName: String): Promise<Boolean>\n   fun open(cacheName: String): Promise<Cache>\n   fun delete(cacheName: String): Promise<Boolean>\n   fun keys(): Promise<Array<String>>\n}\n\npublic external open class FunctionalEvent : ExtendableEvent {\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic external interface UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ServiceWorkerState {\n   companion object\n}\n\npublic inline val ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() = \"installing\".asDynamic().unsafeCast<ServiceWorkerState>()\npublic inline val ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() = \"installed\".asDynamic().unsafeCast<ServiceWorkerState>()\npublic inline val ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() = \"activating\".asDynamic().unsafeCast<ServiceWorkerState>()\npublic inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() = \"activated\".asDynamic().unsafeCast<ServiceWorkerState>()\npublic inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() = \"redundant\".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface FrameType {\n   companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY: FrameType get() = \"auxiliary\".asDynamic().unsafeCast<FrameType>()\npublic inline val FrameType.Companion.TOP_LEVEL: FrameType get() = \"top-level\".asDynamic().unsafeCast<FrameType>()\npublic inline val FrameType.Companion.NESTED: FrameType get() = \"nested\".asDynamic().unsafeCast<FrameType>()\npublic inline val FrameType.Companion.NONE: FrameType get() = \"none\".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ClientType {\n   companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType get() = \"window\".asDynamic().unsafeCast<ClientType>()\npublic inline val ClientType.Companion.WORKER: ClientType get() = \"worker\".asDynamic().unsafeCast<ClientType>()\npublic inline val ClientType.Companion.SHAREDWORKER: ClientType get() = \"sharedworker\".asDynamic().unsafeCast<ClientType>()\npublic inline val ClientType.Companion.ALL: ClientType get() = \"all\".asDynamic().unsafeCast<ClientType>()","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.xhr\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.files.*\n\n/**\n * Exposes the JavaScript

[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to Kotlin\n */\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n   open var onloadstart: ((ProgressEvent) -> dynamic)?\n   open var onprogress: ((ProgressEvent) -> dynamic)?\n   open var onabort: ((Event) -> dynamic)?\n   open var onerror: ((Event) -> dynamic)?\n   open var onload: ((Event) -> dynamic)?\n   open var ontimeout: ((Event) -> dynamic)?\n   open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript [XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n */\npublic external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n   var onreadystatechange: ((Event) -> dynamic)?\n   open val readyState: Short\n   var timeout: Int\n   var withCredentials: Boolean\n   open val upload: XMLHttpRequestUpload\n   open val responseURL: String\n   open val status: Short\n   open val statusText: String\n   var responseType: XMLHttpRequestResponseType\n   open val response: Any?\n   open val responseText: String\n   open val responseXML: Document?\n   fun open(method: String, url: String)\n   fun open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? = definedExternally)\n   fun setRequestHeader(name: String, value: String)\n   fun send(body: dynamic = definedExternally)\n   fun abort()\n   fun getResponseHeader(name: String): String?\n   fun getAllResponseHeaders(): String\n   fun overrideMimeType(mime: String)\n\n   companion object {\n   val UNSENT: Short\n   val OPENED: Short\n   val HEADERS_RECEIVED: Short\n   val LOADING: Short\n   val DONE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n */\npublic external open class FormData(form: HTMLFormElement = definedExternally) {\n   fun append(name: String, value: String)\n   fun append(name: String, value: Blob, filename: String = definedExternally)\n   fun delete(name: String)\n   fun get(name: String): dynamic\n   fun getAll(name: String): Array<dynamic>\n   fun has(name: String): Boolean\n   fun set(name: String, value: String)\n   fun set(name: String, value: Blob, filename: String = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\n */\npublic external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {\n   open val lengthComputable: Boolean\n   open val loaded: Number\n   open val total: Number\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface ProgressEventInit : EventInit {\n   var lengthComputable: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var loaded: Number? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n   var total: Number? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ProgressEventInit(lengthComputable: Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ProgressEventInit {\n   val o = js(\"({})\")\n   o[\"lengthComputable\"] = lengthComputable\n   o[\"loaded\"] = loaded\n   o[\"total\"] = total\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/* please, don't implement this interface! */\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface XMLHttpRequestResponseType {\n   companion object\n}\n\npublic inline val XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() = \"\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() = \"arraybuffer\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() = \"blob\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =

\"document\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() = \"json\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType
 get() = \"text\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated annotation class is a marker of an experimental API.\n *\n * Any declaration annotated with that marker is considered an experimental declaration\n * and its call sites should accept the experimental aspect of it either by using [UseExperimental],\n * or by being annotated with that marker themselves, effectively causing further propagation of that experimental aspect.\n *\n * This class
 is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].\n */\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin(\"1.2\")\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n@Deprecated(\"Please use RequiresOptIn instead.\")\npublic annotation class Experimental(val level: Level = Level.ERROR) {\n   /**\n   * Severity of the diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental aspect\n   * of that API either by using [UseExperimental] or by being annotated with the corresponding marker annotation.\n   */\n   public enum class Level {\n   /** Specifies that a warning should be reported on incorrect usages of this experimental API. */\n   WARNING,\n   /** Specifies that an error should be reported on incorrect usages of this experimental API. */\n   ERROR,\n
    }\n}\n\n/**\n * Allows to use experimental API denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with [UseExperimental], its usages are **not** required to opt-in to that experimental API.\n *\n * This class is deprecated in favor of a more general approach provided by [RequiresOptIn]/[OptIn].\n */\n@Target(\n   CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE, TYPEALIAS\n)\n@Retention(SOURCE)\n@SinceKotlin(\"1.2\")\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\n@Deprecated(\"Please use OptIn instead.\", ReplaceWith(\"OptIn(*markerClass)\", \"kotlin.OptIn\"))\npublic annotation class UseExperimental(\n   vararg val markerClass: KClass<out Annotation>)\n\n\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION, TYPEALIAS)\n@Retention(BINARY)\ninternal
 annotation class WasExperimental(\n   vararg val markerClass: KClass<out Annotation>)\n","package kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * This annotation marks the standard library API that is considered experimental and is not subject to the\n * [general compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the standard library:\n * the behavior of such API may be changed or the API may be removed completely in any further release.\n *\n * > Beware using the annotated API especially if you're developing a library, since your library might become binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)`,\n * or by using the compiler argument `-opt-in=kotlin.ExperimentalStdlibApi`.\n
 */\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@Retention(AnnotationRetention.BINARY)\n@Target(\n   CLASS,\n

ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS\n)\n@MustBeDocumented\n@SinceKotlin(\"1.3\")\npublic annotation class ExperimentalStdlibApi\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Allows to infer generic type arguments of a function from the calls in the annotated function parameter of that function.\n *\n * When this annotation is placed on a generic function parameter of a function,\n * it enables to infer the type arguments of that generic function from the lambda body passed to that parameter.\n *\n * The calls that affect inference are either members of the receiver type of an annotated function parameter or\n * extensions for that type. The extensions must be themselves annotated with `@BuilderInference`.\n *\n * Example: we declare\n * ```\n * fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T>\n * ```\n * and use it like\n * ```\n * val result = sequence { yield(\"result\") }\n * ```\n * Here the type argument of the resulting sequence is inferred to `String` from\n * the argument of the [SequenceScope.yield] function, that is called inside the lambda passed to [sequence].\n *\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n */\n@Target(VALUE_PARAMETER, FUNCTION, PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.3\")\n@ExperimentalTypeInference\npublic annotation class BuilderInference\n\n\n/**\n * Enables overload selection based on the type of the value returned from lambda argument.\n *\n * When two or more function overloads have otherwise the same parameter lists that differ only in the return type\n * of a functional parameter, this annotation enables overload selection by the type of the value returned from\n * the lambda function passed to this functional parameter.\n *\n * Example:\n * ```\n * @OverloadResolutionByLambdaReturnType\n * fun create(intProducer: () -> Int): Int\n *\n * fun create(doubleProducer: () -> Double): Double\n *\n * val newValue = create { 3.14 }\n * ```\n *\n * The annotation being applied to one of overloads allows to resolve this ambiguity by analyzing what value is returned\n * from the lambda function.\n *\n * This annotation is also used to discriminate the annotated overloads in case if overload selection still cannot\n * choose one of them even taking in account the result of lambda parameter analysis. In that case a warning is reported.\n *\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n */\n@Target(FUNCTION)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.4\")\n@ExperimentalTypeInference\npublic annotation class OverloadResolutionByLambdaReturnType","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n/**\n * The experimental multiplatform support API marker.\n *\n * Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalMultiplatform::class)`,\n * or by using the compiler argument `-opt-in=kotlin.ExperimentalMultiplatform`.\n */\n@RequiresOptIn\n@MustBeDocumented\n@Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS\n)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalMultiplatform\n\n\n/**\n * Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\n *\n * This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as \"optional\".\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional annotations can only be used\n * to annotate something, not as types in signatures. If an optional annotation has no

corresponding actual class on a platform,\n * the annotation entries where it's used are simply erased
 when compiling code on that platform.\n *\n * Note: this annotation is experimental, see
[ExperimentalMultiplatform] on how to opt-in for it.\n
*/\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatfor
m\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic
annotation class OptionalExpectation\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport
kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport
kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated
annotation class is a marker of an API that requires an explicit opt-in.\n *\n *
 Call sites of any declaration annotated with that marker should opt in to the API either by using [OptIn],\n * or by
being annotated with that marker themselves, effectively causing further propagation of the opt-in requirement.\n
*\n * This class requires opt-in itself and can only be used with the compiler argument `-opt-
in=kotlin.RequiresOptIn`.\n *\n * @property message message to be reported on usages of API without an explicit
opt-in, or empty string for the default message.\n *   The default message is: \"This declaration is
experimental and its usage should be marked with 'Marker'\n *   or '@OptIn(Marker::class)'\", where
`Marker` is the opt-in requirement marker.\n * @property level specifies how usages of API without an explicit opt-
in are reported in code.\n
*/\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin(\"1.3\")\n@RequireKotlin(\"1.3.70
\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class RequiresOptIn(\n
   val message: String = \"\",\n   val level: Level = Level.ERROR\n) {\n   /**\n   * Severity of the diagnostic that
should be reported on usages which did not explicitly opted into\n   * the API either by using [OptIn] or by being
annotated with the corresponding marker annotation.\n   */\n   public enum class Level {\n   /** Specifies that a
warning should be reported on incorrect usages of this API. */\n   WARNING,\n\n   /** Specifies that an error
should be reported on incorrect usages of this API. */\n   ERROR,\n   }\n}\n\n/**\n * Allows to use the API
denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with
[OptIn], its usages are **not** required to opt in to that API.\n *\n * This class requires opt-in itself and can only be
used with the compiler argument `-opt-in=kotlin.RequiresOptIn`.\n */\n@Target(\n   CLASS, PROPERTY,
LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION,
 PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE,
TYPEALIAS\n)\n@Retention(SOURCE)\n@SinceKotlin(\"1.3\")\n@RequireKotlin(\"1.3.70\", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class OptIn(\n   vararg val markerClass:
KClass<out Annotation>\n)\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\npackage kotlin.collections\n\nimport kotlin.js.JsName\n\n/**\n * Provides a skeletal
implementation of the read-only [Collection] interface.\n *\n * @param E the type of elements contained in the
collection. The collection is covariant in its element type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class
AbstractCollection<out E> protected constructor() : Collection<E> {\n   abstract override val size: Int\n   abstract
override fun iterator(): Iterator<E>\n\n   override fun contains(element:
 @UnsafeVariance E): Boolean = any { it == element }\n\n   override fun containsAll(elements:
Collection<@UnsafeVariance E>): Boolean =\n   elements.all { contains(it) } // use when js will support bound
refs: elements.all(this::contains)\n\n   override fun isEmpty(): Boolean = size == 0\n\n   override fun toString():
String = joinToString(\", \", \"[\", \"]\") {\n   if (it === this) \"(this Collection)\" else it.toString()\n   }\n\n   /**\n
   * Returns new array of type `Array<Any?>` with the elements of this collection.\n   */\n
@JsName(\"toArray\")\n   protected open fun toArray(): Array<Any?> = copyToArrayImpl(this)\n\n   /**\n   *
Fills the provided [array] or creates new array of the same type\n   * and fills it with the elements of this

collection.\n   */\n   protected open fun <T> toArray(array: Array<T>): Array<T> = copyToArrayImpl(this, array)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n\nprivate enum class State {\n   Ready,\n   NotReady,\n   Done,\n   Failed\n}\n\n/**\n * A base class to simplify implementing iterators so that implementations only have to implement [computeNext]\n * to implement the iterator, calling [done] when the iteration is complete.\n */\npublic abstract class AbstractIterator<T> : Iterator<T> {\n   private var state = State.NotReady\n   private var nextValue: T? = null\n\n   override fun hasNext(): Boolean {\n   require(state != State.Failed)\n   return when (state) {\n   State.Done -> false\n   State.Ready -> true\n   else -> tryToComputeNext()\n   }\n   }\n\n   override fun next(): T {\n   if (!hasNext()) throw NoSuchElementException()\n   state = State.NotReady\n   @Suppress(\"UNCHECKED_CAST\")\n   return nextValue as T\n   }\n\n   private fun tryToComputeNext(): Boolean {\n   state = State.Failed\n   computeNext()\n   return state == State.Ready\n   }\n\n   /**\n   * Computes the next item in the iterator.\n   *\n   * This callback method should call one of these two methods:\n   *\n   * * [setNext] with the next value of the iteration\n   * * [done] to indicate there are no more elements\n   *\n   * Failure to call either method will result in the iteration terminating with a failed state\n   */\n   abstract protected fun computeNext(): Unit\n\n   /**\n   * Sets the next value in the iteration, called from the [computeNext] function\n   */\n   protected fun setNext(value: T): Unit {\n   nextValue = value\n   state = State.Ready\n   }\n\n   /**\n   * Sets the state to done so that the iteration terminates.\n   */\n   protected fun done() {\n   state = State.Done\n   }\n}\n\n\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/*\n * Based on GWT AbstractList\n * Copyright 2007 Google Inc.\n*/\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [List] interface.\n *\n * This class is intended to help implementing read-only lists so it doesn't support concurrent modification tracking.\n *\n * @param E the type of elements contained in the list. The list is covariant in its element type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractList<out E> protected constructor() : AbstractCollection<E>(), List<E> {\n   abstract override val size: Int\n   abstract override fun get(index: Int): E\n\n   override fun iterator(): Iterator<E> = IteratorImpl()\n\n   override fun indexOf(element: @UnsafeVariance E): Int = indexOfFirst { it == element }\n\n   override fun lastIndexOf(element: @UnsafeVariance E): Int = indexOfLast { it == element }\n\n   override fun listIterator(): ListIterator<E> = ListIteratorImpl(0)\n\n   override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)\n\n   override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)\n\n   private class SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) : AbstractList<E>(), RandomAccess {\n   private var _size: Int = 0\n\n   init {\n   checkRangeIndexes(fromIndex, toIndex, list.size)\n   this._size = toIndex - fromIndex\n   }\n\n   override fun get(index: Int): E {\n   checkElementIndex(index, _size)\n\n   return list[fromIndex + index]\n   }\n\n   override val size: Int get() = _size\n   }\n\n   /**\n   * Compares this list with other list instance with the ordered structural equality.\n   *\n   * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\n   */\n   override fun equals(other: Any?): Boolean {\n   if (other === this) return true\n   if (other !is List<*>) return false\n\n   return orderedEquals(this, other)\n   }\n\n   /**\n   * Returns the hash code value for this list.\n   */\n   override fun hashCode(): Int = orderedHashCode(this)\n\n   private open inner class IteratorImpl : Iterator<E> {\n   /** the index of the item that will be returned on the next call to [next]`()` */\n   protected var index = 0\n\n   override fun hasNext(): Boolean = index < size\n\n   override fun next(): E {\n   if (!hasNext()) throw NoSuchElementException()\n   return get(index++)\n   }\n   }\n\n   /**\n   * Implementation of [ListIterator] for abstract lists.\n   */\n   private open inner class ListIteratorImpl(index: Int) : IteratorImpl(), ListIterator<E> {\n\n   init {\n   checkPositionIndex(index,

this@AbstractList.size)\n   this.index = index\n   }\n\n   override fun hasPrevious(): Boolean = index > 0\n\n   override fun nextIndex(): Int = index\n\n   override fun previous(): E {\n   if (!hasPrevious()) throw NoSuchElementException()\n   return get(--index)\n   }\n\n   override fun previousIndex(): Int = index - 1\n   }\n\n   internal companion object {\n   internal fun checkElementIndex(index: Int, size: Int) {\n   if (index < 0 || index >= size) {\n   throw IndexOutOfBoundsException(\"index: $index, size: $size\")\n   }\n   }\n\n   internal fun checkPositionIndex(index: Int, size: Int) {\n   if (index < 0 || index > size) {\n   throw IndexOutOfBoundsException(\"index: $index, size: $size\")\n   }\n   }\n\n   internal fun checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\n   if (fromIndex < 0 || toIndex > size) {\n   throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex, size: $size\")\n   }\n   if (fromIndex > toIndex) {\n   throw IllegalArgumentException(\"fromIndex: $fromIndex > toIndex: $toIndex\")\n   }\n   }\n\n   internal fun checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\n   if (startIndex < 0 || endIndex > size) {\n   throw IndexOutOfBoundsException(\"startIndex: $startIndex, endIndex: $endIndex, size: $size\")\n   }\n   if (startIndex > endIndex) {\n   throw IllegalArgumentException(\"startIndex: $startIndex > endIndex: $endIndex\")\n   }\n   }\n\n   internal fun orderedHashCode(c: Collection<*>): Int {\n   var hashCode = 1\n   for (e in c) {\n   hashCode = 31 * hashCode + (e?.hashCode() ?: 0)\n   }\n   return hashCode\n   }\n\n   internal fun orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {\n   if (c.size != other.size) return false\n   val otherIterator = other.iterator()\n   for (elem in c) {\n   val elemOther = otherIterator.next()\n   if (elem != elemOther) {\n   return false\n   }\n   }\n   return true\n   }\n   }\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file. */\n\n/*\n * Based on GWT AbstractMap\n * Copyright 2007 Google Inc. */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [Map] interface.\n *\n * The implementor is required to implement [entries] property, which should return read-only set of map entries.\n *\n * @param K the type of map keys. The map is invariant in its key type.\n * @param V the type of map values. The map is covariant in its value type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractMap<K, out V> protected constructor() : Map<K, V> {\n\n   override fun containsKey(key: K): Boolean {\n   return implFindEntry(key) != null\n   }\n\n   override fun containsValue(value: @UnsafeVariance V): Boolean = entries.any { it.value == value }\n\n   internal fun containsEntry(entry: Map.Entry<*, *>?): Boolean {\n   // since entry comes from @UnsafeVariance parameters it can be virtually anything\n   if (entry !is Map.Entry<*, *>) return false\n   val key = entry.key\n   val value = entry.value\n   val ourValue = get(key)\n\n   if (value != ourValue) {\n   return false\n   }\n\n   // Perhaps it was null and we don't contain the key?\n   if (ourValue == null && !containsKey(key)) {\n   return false\n   }\n\n   return true\n   }\n\n\n   /**\n   * Compares this map with other instance with the ordered structural equality.\n   *\n   * @return true, if [other] instance is a [Map] of the same size, all entries of which are contained in the [entries] set of this map.\n   */\n   override fun equals(other: Any?): Boolean {\n   if (other === this) return true\n   if (other !is Map<*, *>) return false\n   if (size != other.size) return false\n\n   return other.entries.all { containsEntry(it) }\n   }\n\n   override operator fun get(key: K): V? = implFindEntry(key)?.value\n\n\n   /**\n   * Returns the hash code value for this map.\n   *\n   * It is the same as the hashCode of [entries] set.\n   */\n   override fun hashCode(): Int = entries.hashCode()\n\n   override fun isEmpty(): Boolean = size == 0\n   override val size: Int get() = entries.size\n\n   /**\n   * Returns a read-only [Set] of all keys in this map.\n   *\n   * Accessing this property first time creates a keys view from [entries].\n   * All subsequent accesses just return the created instance.\n   */\n   override val keys: Set<K>\n   get() {\n   if (_keys == null) {\n   _keys = object : AbstractSet<K>() {\n   override operator fun contains(element: K): Boolean = containsKey(element)\n\n   override operator fun iterator(): Iterator<K> {\n   val entryIterator = entries.iterator()\n   return object : Iterator<K> {\n   override fun

hasNext(): Boolean = entryIterator.hasNext()\n   override fun next(): K = entryIterator.next().key\n
}\n   }\n\n   override val size: Int get() = this@AbstractMap.size\n   }\n
}\n   return _keys!!\n   }\n\n @kotlin.jvm.Volatile\n   private var _keys: Set<K>? = null\n\n\n
override fun toString(): String = entries.joinToString(\", \", \"{\", \"}\") { toString(it)

 }\n\n   private fun toString(entry: Map.Entry<K, V>): String = toString(entry.key) + \"=\" +
toString(entry.value)\n\n   private fun toString(o: Any?): String = if (o === this) \"(this Map)\" else o.toString()\n\n
 /**\n   * Returns a read-only [Collection] of all values in this map.\n   *\n   * Accessing this property first time
creates a values view from [entries].\n   * All subsequent accesses just return the created instance.\n   */\n
override val values: Collection<V>\n   get() {\n   if (_values == null) {\n   _values = object :
AbstractCollection<V>() {\n   override operator fun contains(element: @UnsafeVariance V): Boolean =
containsValue(element)\n\n   override operator fun iterator(): Iterator<V> {\n   val
entryIterator = entries.iterator()\n   return object : Iterator<V> {\n   override fun
hasNext(): Boolean = entryIterator.hasNext()\n

               override fun next(): V = entryIterator.next().value\n   }\n   }\n\n
override val size: Int get() = this@AbstractMap.size\n   }\n   }\n   return _values!!\n   }\n\n
@kotlin.jvm.Volatile\n   private var _values: Collection<V>? = null\n\n   private fun implFindEntry(key: K):
Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n\n   internal companion object {\n\n   internal fun
entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }\n
internal fun entryToString(e: Map.Entry<*, *>): String = with(e) { \"$key=$value\" }\n   internal fun
entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n   if (other !is Map.Entry<*, *>) return false\n
 return e.key == other.key && e.value == other.value\n   }\n   }\n}\n","/*\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin

 Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Provides a skeletal
implementation of the read-only [Set] interface.\n *\n * This class is intended to help implementing read-only sets so
it doesn't support concurrent modification tracking.\n *\n * @param E the type of elements contained in the set. The
set is covariant in its element type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractSet<out E> protected
constructor() : AbstractCollection<E>(), Set<E> {\n\n   /**\n   * Compares this set with other set instance with the
unordered structural equality.\n   *\n   * @return true, if [other] instance is a [Set] of the same size, all elements of
which are contained in this set.\n   */\n   override fun equals(other: Any?): Boolean {\n   if (other === this)
return true\n   if (other !is Set<*>) return false\n

   return setEquals(this, other)\n   }\n\n   /**\n   * Returns the hash code value for this set.\n   */\n   override fun
hashCode(): Int = unorderedHashCode(this)\n\n   internal companion object {\n   internal fun
unorderedHashCode(c: Collection<*>): Int {\n   var hashCode = 0\n   for (element in c) {\n
hashCode += (element?.hashCode() ?: 0)\n   }\n   return hashCode\n   }\n\n   internal fun
setEquals(c: Set<*>, other: Set<*>): Boolean {\n   if (c.size != other.size) return false\n   return
c.containsAll(other)\n   }\n   }\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Resizable-array implementation of the deque
data structure.\n *\n * The name deque is short for \"double ended queue\"

 and is usually pronounced \"deck\".\n *\n * The collection provide methods for convenient access to the both
ends.\n * It also implements [MutableList] interface and supports efficient get/set operations by index.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic class ArrayDeque<E> :
AbstractMutableList<E> {\n   private var head: Int = 0\n   private var elementData: Array<Any?>\n\n   override
var size: Int = 0\n   private set\n\n   /**\n   * Constructs an empty deque with specified [initialCapacity], or
throws [IllegalArgumentException] if [initialCapacity] is negative.\n   */\n   public constructor(initialCapacity:
Int) {\n   elementData = when {\n   initialCapacity == 0 -> emptyElementData\n   initialCapacity > 0 -
> arrayOfNulls(initialCapacity)\n   else -> throw IllegalArgumentException(\"Illegal Capacity:

$initialCapacity\")\n   }\n   }\n\n   /**\n   * Constructs an empty deque.\n   */\n   public constructor() {\n   elementData = emptyElementData\n   }\n\n   /**\n   * Constructs a deque that contains the same elements as the specified [elements] collection in the same order.\n   */\n   public constructor(elements: Collection<E>) {\n   elementData = elements.toTypedArray()\n   size = elementData.size\n   if (elementData.isEmpty()) elementData = emptyElementData\n   }\n\n   /**\n   * Ensures that the capacity of this deque is at least equal to the specified [minCapacity].\n   *\n   * If the current capacity is less than the [minCapacity], a new backing storage is allocated with greater capacity.\n   * Otherwise, this method takes no action and simply returns.\n   */\n   private fun ensureCapacity(minCapacity: Int) {\n   if (minCapacity < 0) throw IllegalStateException(\"Deque is too big.\")   // overflow\n   if (minCapacity <= elementData.size) return\n   if (elementData === emptyElementData) {\n   elementData = arrayOfNulls(minCapacity.coerceAtLeast(defaultMinCapacity))\n   return\n   }\n   val newCapacity = newCapacity(elementData.size, minCapacity)\n   copyElements(newCapacity)\n   }\n\n   /**\n   * Creates a new array with the specified [newCapacity] size and copies elements in the [elementData] array to it.\n   */\n   private fun copyElements(newCapacity: Int) {\n   val newElements = arrayOfNulls<Any?>(newCapacity)\n   elementData.copyInto(newElements, 0, head, elementData.size)\n   elementData.copyInto(newElements, elementData.size - head, 0, head)\n   head = 0\n   elementData = newElements\n   }\n\n   @kotlin.internal.InlineOnly\n   private inline fun internalGet(internalIndex: Int): E {\n   @Suppress(\"UNCHECKED_CAST\")\n   return elementData[internalIndex] as E\n   }\n\n   private fun positiveMod(index: Int): Int = if (index >= elementData.size) index - elementData.size else index\n\n   private fun negativeMod(index: Int): Int = if (index < 0) index + elementData.size else index\n\n   @kotlin.internal.InlineOnly\n   private inline fun internalIndex(index: Int): Int = positiveMod(head + index)\n\n   private fun incremented(index: Int): Int = if (index == elementData.lastIndex) 0 else index + 1\n\n   private fun decremented(index: Int): Int = if (index == 0) elementData.lastIndex else index - 1\n\n   override fun isEmpty(): Boolean = size == 0\n\n   /**\n   * Returns the first element, or throws [NoSuchElementException] if this deque is empty.\n   */\n   public fun first(): E = if (isEmpty()) throw NoSuchElementException(\"ArrayDeque is empty.\") else internalGet(head)\n\n   /**\n   * Returns the first element, or `null` if this deque is empty.\n   */\n   public fun firstOrNull(): E? = if (isEmpty()) null else internalGet(head)\n\n   /**\n   * Returns the last element, or throws [NoSuchElementException] if this deque is empty.\n   */\n   public fun last(): E = if (isEmpty()) throw NoSuchElementException(\"ArrayDeque is empty.\") else internalGet(internalIndex(lastIndex))\n\n   /**\n   * Returns the last element, or `null` if this deque is empty.\n   */\n   public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))\n\n   /**\n   * Prepends the specified [element] to this deque.\n   */\n   public fun addFirst(element: E) {\n   ensureCapacity(size + 1)\n\n   head = decremented(head)\n   elementData[head] = element\n   size += 1\n   }\n\n   /**\n   * Appends the specified [element] to this deque.\n   */\n   public fun addLast(element: E) {\n   ensureCapacity(size + 1)\n\n   elementData[internalIndex(size)] = element\n   size += 1\n   }\n\n   /**\n   * Removes the first element from this deque and returns that removed element, or throws [NoSuchElementException] if this deque is empty.\n   */\n   public fun removeFirst(): E {\n   if (isEmpty()) throw NoSuchElementException(\"ArrayDeque is empty.\")\n\n   val element = internalGet(head)\n   elementData[head] = null\n   head = incremented(head)\n   size -= 1\n   return element\n   }\n\n   /**\n   * Removes the first element from this deque and returns that removed element, or returns `null` if this deque is empty.\n   */\n   public fun removeFirstOrNull(): E? = if (isEmpty()) null else removeFirst()\n\n   /**\n   * Removes the last element from this deque and returns that removed element, or throws [NoSuchElementException] if this deque is empty.\n   */\n   public fun removeLast(): E {\n   if (isEmpty()) throw NoSuchElementException(\"ArrayDeque is empty.\")\n\n   val internalLastIndex = internalIndex(lastIndex)\n   val element = internalGet(internalLastIndex)\n   elementData[internalLastIndex] = null\n   size -= 1\n   return element\n   }\n\n   /**\n   * Removes the last element from this deque and returns that removed

element, or returns `null` if this deque is empty.\n   *\n   public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()\n\n   // MutableList, MutableCollection\n   public override fun add(element: E): Boolean {\n   addLast(element)\n   return true\n   }\n\n   public override fun add(index: Int, element: E) {\n   AbstractList.checkPositionIndex(index, size)\n\n   if (index == size) {\n   addLast(element)\n   return\n   } else if (index == 0) {\n   addFirst(element)\n   return\n   }\n\n   ensureCapacity(size + 1)\n\n   // Elements in circular array lay in 2 ways:\n   // 1. `head` is less than `tail`:   [#, #, e1, e2, e3, #]\n   // 2. `head` is greater than `tail`:   [e3, #, #, #, e1, e2]\n   // where head is the index of the first element in the circular array,\n   // and tail is the index following the last element.\n   //\n   // At this point the insertion index is not equal to head or tail.\n   // Also the circular array can store at least one more element.\n   //\n   // Depending on where the given element must be inserted the preceding or the succeeding\n   // elements will be shifted to make room for the element to be inserted.\n   //\n   // In case the preceding elements are shifted:\n   // * if the insertion index is greater than the head (regardless of circular array form)\n   //   -> shift the preceding elements\n   // * otherwise, the circular array has (2) form and the insertion index is less than tail\n   //   -> shift all elements in the back of the array\n   //   -> shift preceding elements in the front of the array\n   // In case the succeeding elements are shifted:\n   // * if the insertion index is less than the tail (regardless of circular array form)\n   //   -> shift the succeeding elements\n   // * otherwise, the circular array has (2) form and the insertion index is greater than head\n   //   -> shift all elements in the front of the array\n   //   -> shift succeeding elements in the back of the array\n\n   val internalIndex = internalIndex(index)\n\n   if (index < (size + 1) shr 1) {\n   // closer to the first element -> shift preceding elements\n   val decrementedInternalIndex = decremented(internalIndex)\n   val decrementedHead = decremented(head)\n\n   if (decrementedInternalIndex >= head) {\n   elementData[decrementedHead] = elementData[head] // head can be zero\n   elementData.copyInto(elementData, head, head + 1, decrementedInternalIndex + 1)\n   } else { // head > tail\n   elementData.copyInto(elementData, head - 1, head, elementData.size) // head can't be zero\n   elementData[elementData.size - 1] = elementData[0]\n   elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n   }\n\n   elementData[decrementedInternalIndex] = element\n   head = decrementedHead\n   } else {\n   // closer to the last element -> shift succeeding elements\n   val tail = internalIndex(size)\n\n   if (internalIndex < tail) {\n   elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)\n   } else { // head > tail\n   elementData.copyInto(elementData, 1, 0, tail)\n   elementData[0] = elementData[elementData.size - 1]\n   elementData.copyInto(elementData, internalIndex + 1, internalIndex, elementData.size - 1)\n   }\n   elementData[internalIndex] = element\n   }\n   size += 1\n   }\n\n   private fun copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n   val iterator = elements.iterator()\n\n   for (index in internalIndex until elementData.size) {\n   if (!iterator.hasNext()) break\n   elementData[index] = iterator.next()\n   }\n   for (index in 0 until head) {\n   if (!iterator.hasNext()) break\n   elementData[index] = iterator.next()\n   }\n\n   size += elements.size\n   }\n\n   public override fun addAll(elements: Collection<E>): Boolean {\n   if (elements.isEmpty()) return false\n   ensureCapacity(this.size + elements.size)\n   copyCollectionElements(internalIndex(size), elements)\n   return true\n   }\n\n   public override fun addAll(index: Int, elements: Collection<E>): Boolean {\n   AbstractList.checkPositionIndex(index, size)\n\n   if (elements.isEmpty()) {\n   return false\n   } else if (index == size) {\n   return addAll(elements)\n   }\n\n   ensureCapacity(this.size + elements.size)\n\n   val tail = internalIndex(size)\n   val internalIndex = internalIndex(index)\n   val elementsSize = elements.size\n\n   if (index < (size + 1) shr 1) {\n   // closer to the first element -> shift preceding elements\n\n   var shiftedHead = head - elementsSize\n\n   if (internalIndex >= head) {\n   if (shiftedHead >= 0) {\n   elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n   } else { // head < tail, insertion leads to head >= tail\n   shiftedHead += elementData.size\n   val elementsToShift = internalIndex - head\n   val shiftToBack = elementData.size - shiftedHead\n\n

element, or returns `null` if this deque is empty.\n   *\n   public fun removeLastOrNull(): E? = if (isEmpty()) null else removeLast()\n\n   // MutableList, MutableCollection\n   public override fun add(element: E): Boolean {\n   addLast(element)\n   return true\n   }\n\n   public override fun add(index: Int, element: E) {\n   AbstractList.checkPositionIndex(index, size)\n\n   if (index == size) {\n   addLast(element)\n   return\n   } else if (index == 0) {\n   addFirst(element)\n   return\n   }\n\n   ensureCapacity(size + 1)\n\n   // Elements in circular array lay in 2 ways:\n   // 1. `head` is less than `tail`:   [#, #, e1, e2, e3, #]\n   // 2. `head` is greater than `tail`:   [e3, #, #, #, e1, e2]\n   // where head is the index of the first element in the circular array,\n   // and tail is the index following the last element.\n   //\n   // At this point the insertion index is not equal to head or tail.\n   // Also the circular array can store at least one more element.\n   //\n   // Depending on where the given element must be inserted the preceding or the succeeding\n   // elements will be shifted to make room for the element to be inserted.\n   //\n   // In case the preceding elements are shifted:\n   // * if the insertion index is greater than the head (regardless of circular array form)\n   //   -> shift the preceding elements\n   // * otherwise, the circular array has (2) form and the insertion index is less than tail\n   //   -> shift all elements in the back of the array\n   //   -> shift preceding elements in the front of the array\n   // In case the succeeding elements are shifted:\n   // * if the insertion index is less than the tail (regardless of circular array form)\n   //   -> shift the succeeding elements\n   // * otherwise, the circular array has (2) form and the insertion index is greater than head\n   //   -> shift all elements in the front of the array\n   //   -> shift succeeding elements in the back of the array\n\n   val internalIndex = internalIndex(index)\n\n   if (index < (size + 1) shr 1) {\n   // closer to the first element -> shift preceding elements\n   val decrementedInternalIndex = decremented(internalIndex)\n   val decrementedHead = decremented(head)\n\n   if (decrementedInternalIndex >= head) {\n   elementData[decrementedHead] = elementData[head] // head can be zero\n   elementData.copyInto(elementData, head, head + 1, decrementedInternalIndex + 1)\n   } else { // head > tail\n   elementData.copyInto(elementData, head - 1, head, elementData.size) // head can't be zero\n   elementData[elementData.size - 1] = elementData[0]\n   elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n   }\n\n   elementData[decrementedInternalIndex] = element\n   head = decrementedHead\n   } else {\n   // closer to the last element -> shift succeeding elements\n   val tail = internalIndex(size)\n\n   if (internalIndex < tail) {\n   elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)\n   } else { // head > tail\n   elementData.copyInto(elementData, 1, 0, tail)\n   elementData[0] = elementData[elementData.size - 1]\n   elementData.copyInto(elementData, internalIndex + 1, internalIndex, elementData.size - 1)\n   }\n   elementData[internalIndex] = element\n   }\n   size += 1\n   }\n\n   private fun copyCollectionElements(internalIndex: Int, elements: Collection<E>) {\n   val iterator = elements.iterator()\n\n   for (index in internalIndex until elementData.size) {\n   if (!iterator.hasNext()) break\n   elementData[index] = iterator.next()\n   }\n   for (index in 0 until head) {\n   if (!iterator.hasNext()) break\n   elementData[index] = iterator.next()\n   }\n\n   size += elements.size\n   }\n\n   public override fun addAll(elements: Collection<E>): Boolean {\n   if (elements.isEmpty()) return false\n   ensureCapacity(this.size + elements.size)\n   copyCollectionElements(internalIndex(size), elements)\n   return true\n   }\n\n   public override fun addAll(index: Int, elements: Collection<E>): Boolean {\n   AbstractList.checkPositionIndex(index, size)\n\n   if (elements.isEmpty()) {\n   return false\n   } else if (index == size) {\n   return addAll(elements)\n   }\n\n   ensureCapacity(this.size + elements.size)\n\n   val tail = internalIndex(size)\n   val internalIndex = internalIndex(index)\n   val elementsSize = elements.size\n\n   if (index < (size + 1) shr 1) {\n   // closer to the first element -> shift preceding elements\n\n   var shiftedHead = head - elementsSize\n\n   if (internalIndex >= head) {\n   if (shiftedHead >= 0) {\n   elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n   } else { // head < tail, insertion leads to head >= tail\n   shiftedHead += elementData.size\n   val elementsToShift = internalIndex - head\n   val shiftToBack = elementData.size - shiftedHead\n\n

if (shiftToBack >= elementsToShift) {\n   elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n   } else {\n   elementData.copyInto(elementData, shiftedHead, head, head + shiftToBack)\n   elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n   }\n   }\n   } else { // head > tail, internalIndex < tail\n   elementData.copyInto(elementData, shiftedHead, head, elementData.size)\n   if (elementsSize >= internalIndex) {\n   elementData.copyInto(elementData, elementData.size - elementsSize, 0, internalIndex)\n   } else {\n   elementData.copyInto(elementData, elementData.size - elementsSize, 0, elementsSize)\n   elementData.copyInto(elementData, 0, elementsSize, internalIndex)\n   }\n   }\n   head = shiftedHead\n   copyCollectionElements(negativeMod(internalIndex - elementsSize), elements)\n   } else {\n   // closer to the last element -> shift succeeding elements\n\n   val shiftedInternalIndex = internalIndex + elementsSize\n\n   if (internalIndex < tail) {\n   if (tail + elementsSize <= elementData.size) {\n   elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail)\n   } else { // head < tail, insertion leads to head >= tail\n   if (shiftedInternalIndex >= elementData.size) {\n   elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, tail)\n   } else {\n   val shiftToFront = tail + elementsSize - elementData.size\n   elementData.copyInto(elementData, 0, tail - shiftToFront, tail)\n   elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, tail - shiftToFront)\n   }\n   }\n   } else { // head > tail, internalIndex > head\n   elementData.copyInto(elementData, elementsSize, 0, tail)\n   if (shiftedInternalIndex >= elementData.size) {\n   elementData.copyInto(elementData, shiftedInternalIndex - elementData.size, internalIndex, elementData.size)\n   } else {\n   elementData.copyInto(elementData, 0, elementData.size - elementsSize, elementData.size)\n   elementData.copyInto(elementData, shiftedInternalIndex, internalIndex, elementData.size - elementsSize)\n   }\n   }\n   copyCollectionElements(internalIndex, elements)\n   }\n\n   return true\n }\n\n public override fun get(index: Int): E {\n   AbstractList.checkElementIndex(index, size)\n\n   return internalGet(internalIndex(index))\n   }\n\n   public override fun set(index: Int, element: E): E {\n   AbstractList.checkElementIndex(index, size)\n\n   val internalIndex = internalIndex(index)\n   val oldElement = internalGet(internalIndex)\n   elementData[internalIndex] = element\n   return oldElement\n   }\n\n   public override fun contains(element: E): Boolean = indexOf(element) != -1\n\n   public override fun indexOf(element: E): Int {\n   val tail = internalIndex(size)\n\n   if (head < tail) {\n   for (index in head until tail) {\n   if (element == elementData[index]) return index - head\n   }\n   } else if (head >= tail) {\n   for (index in head until elementData.size) {\n   if (element == elementData[index]) return index - head\n   }\n   for (index in 0 until tail) {\n   if (element == elementData[index]) return index + elementData.size - head\n   }\n   }\n\n   return -1\n   }\n\n   public override fun lastIndexOf(element: E): Int {\n   val tail = internalIndex(size)\n\n   if (head < tail) {\n   for (index in tail - 1 downTo head) {\n   if (element == elementData[index]) return index - head\n   }\n   } else if (head > tail) {\n   for (index in tail - 1 downTo 0) {\n   if (element == elementData[index])\n return index + elementData.size - head\n   }\n   for (index in elementData.lastIndex downTo head) {\n   if (element == elementData[index]) return index - head\n   }\n   }\n\n   return -1\n   }\n\n   public override fun remove(element: E): Boolean {\n   val index = indexOf(element)\n   if (index == -1) return false\n   removeAt(index)\n   return true\n   }\n\n   public override fun removeAt(index: Int): E {\n   AbstractList.checkElementIndex(index, size)\n\n   if (index == lastIndex) {\n   return removeLast()\n   } else if (index == 0) {\n   return removeFirst()\n   }\n\n   val internalIndex = internalIndex(index)\n   val element = internalGet(internalIndex)\n\n   if (index < size shr 1) {\n   // closer to the first element -> shift preceding elements\n   if (internalIndex >= head) {\n   elementData.copyInto(elementData, head + 1, head, internalIndex)\n   } else { // head > tail, internalIndex < head\n   elementData.copyInto(elementData, 1, 0, internalIndex)\n   elementData[0] = elementData[elementData.size

- 1]\n   elementData.copyInto(elementData, head + 1, head, elementData.size - 1)\n   }\n\n elementData[head] = null\n   head = incremented(head)\n   } else {\n   // closer to the last element -> shift succeeding elements\n   val internalLastIndex = internalIndex(lastIndex)\n\n   if (internalIndex <= internalLastIndex) {\n   elementData.copyInto(elementData, internalIndex, internalIndex + 1, internalLastIndex + 1)\n   } else { // head > tail, internalIndex > head\n   elementData.copyInto(elementData, internalIndex, internalIndex + 1, elementData.size)\n   elementData[elementData.size - 1] = elementData[0]\n   elementData.copyInto(elementData, 0, 1, internalLastIndex + 1)\n   }\n\n   elementData[internalLastIndex] = null\n   }\n   size -= 1\n\n   return element\n   }\n\n   public override fun removeAll(elements: Collection<E>): Boolean = filterInPlace { !elements.contains(it) }\n\n   public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace { elements.contains(it) }\n\n   private inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {\n   if (this.isEmpty() || elementData.isEmpty())\n   return false\n\n   val tail = internalIndex(size)\n   var newTail = head\n   var modified = false\n\n   if (head < tail) {\n   for (index in head until tail) {\n   val element = elementData[index]\n\n   @Suppress(\"UNCHECKED_CAST\")\n   if (predicate(element as E))\n   elementData[newTail++] = element\n   else\n   modified = true\n   }\n\n   elementData.fill(null, newTail, tail)\n\n   } else {\n   for (index in head until elementData.size) {\n   val element = elementData[index]\n   elementData[index] = null\n\n   @Suppress(\"UNCHECKED_CAST\")\n   if (predicate(element as E))\n   elementData[newTail++] = element\n   else\n   modified = true\n   }\n\n   newTail = positiveMod(newTail)\n\n   for (index in 0 until tail) {\n   val element = elementData[index]\n   elementData[index] = null\n\n   @Suppress(\"UNCHECKED_CAST\")\n   if (predicate(element as E)) {\n   elementData[newTail] = element\n   newTail = incremented(newTail)\n   } else {\n   modified = true\n   }\n   }\n   }\n   if (modified)\n   size = negativeMod(newTail - head)\n\n   return modified\n   }\n\n   public override fun clear() {\n   val tail = internalIndex(size)\n   if (head < tail) {\n   elementData.fill(null, head, tail)\n   } else if (isNotEmpty()) {\n   elementData.fill(null, head, elementData.size)\n   elementData.fill(null, 0, tail)\n   }\n   head = 0\n   size = 0\n   }\n\n   @Suppress(\"NOTHING_TO_OVERRIDE\")\n   override fun <T> toArray(array: Array<T>): Array<T> {\n   @Suppress(\"UNCHECKED_CAST\")\n   val dest = (if (array.size >= size) array else arrayOfNulls(array, size)) as Array<Any?>\n\n   val tail = internalIndex(size)\n   if (head < tail) {\n   elementData.copyInto(dest, startIndex = head, endIndex = tail)\n   } else if (isNotEmpty()) {\n   elementData.copyInto(dest, destinationOffset = 0, startIndex = head, endIndex = elementData.size)\n   elementData.copyInto(dest, destinationOffset = elementData.size - head, startIndex = 0, endIndex = tail)\n   }\n   if (dest.size > size) {\n   dest[size] = null // null-terminate\n   }\n\n   @Suppress(\"UNCHECKED_CAST\")\n   return dest as Array<T>\n   }\n\n   @Suppress(\"NOTHING_TO_OVERRIDE\")\n   override fun toArray(): Array<Any?> {\n   return toArray(arrayOfNulls<Any?>(size))\n   }\n\n   // for testing\n   internal fun <T> testToArray(array: Array<T>): Array<T> = toArray(array)\n   internal fun testToArray(): Array<Any?> = toArray()\n\n   internal companion object {\n   private val emptyElementData = emptyArray<Any?>()\n   private const val maxArraySize = Int.MAX_VALUE - 8\n   private const val defaultMinCapacity = 10\n\n   internal fun newCapacity(oldCapacity: Int, minCapacity: Int): Int {\n   // overflow-conscious\n   var newCapacity = oldCapacity + (oldCapacity shr 1)\n   if (newCapacity - minCapacity < 0)\n   newCapacity = minCapacity\n\n   if (newCapacity - maxArraySize > 0)\n   newCapacity = if (minCapacity > maxArraySize) Int.MAX_VALUE else maxArraySize\n   return newCapacity\n   }\n   }\n\n   // For testing only\n   internal fun internalStructure(structure: (head: Int, elements: Array<Any?>) -> Unit) {\n   val tail = internalIndex(size)\n   val head = if (isEmpty() || head < tail) head else head - elementData.size\n

structure(head, toArray()))\n   }\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\n\n\npackage kotlin.collections\n\nimport kotlin.contracts.\n\n\n/**\n * Returns a single list of all elements from all arrays in the given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n */\npublic

 fun <T> Array<out Array<out T>>.flatten(): List<T> {\n   val result = ArrayList<T>(sumOf { it.size })\n   for (element in this) {\n   result.addAll(element)\n   }\n   return result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this array,\n * *second* list is built from the second values of each pair from this array.\n * @sample samples.collections.Arrays.Transformations.unzipArray\n

*/\npublic fun <T, R> Array<out Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n   val listT = ArrayList<T>(size)\n   val listR = ArrayList<R>(size)\n   for (pair in this) {\n   listT.add(pair.first)\n   listR.add(pair.second)\n   }\n   return listT to listR\n}\n\n/**\n * Returns `true` if this nullable array is either null or empty.\n * @sample samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n

/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun Array<>?.isNullOrEmpty(): Boolean {\n   contract

 {\n   returns(false) implies (this@isNullOrEmpty != null)\n   }\n\n   return this == null || this.isEmpty()\n}\n\n/**\n * Returns this array if it's not empty\n * or the result of calling [defaultValue] function if the array is empty.\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\n

/\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"UPPER_BOUND_CANNOT_BE_ARRAY\")\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<>, C : R =\n   if (isEmpty()) defaultValue() else

this\n\n\n@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin(\"1.3\")\n@PublishedApi\n@kotlin.jvm.JvmName(\"contentDeepEquals\")\n@kotlin.js.JsName(\"contentDeepEqualsImpl\")\ninternal fun <T> Array<out T>?.contentDeepEqualsImpl(other: Array<out T>?): Boolean {\n   if (this === other) return true\n   if (this == null || other == null || this.size != other.size) return false\n\n   for (i in indices) {\n   val v1 = this[i]\n   val v2 = other[i]\n\n

    if (v1 === v2) {\n   continue\n   } else if (v1 == null || v2 == null) {\n   return false\n   }\n\n   when {\n   v1 is Array<*>   && v2 is Array<*>   -> if (!v1.contentDeepEquals(v2)) return false\n   v1 is ByteArray   && v2 is ByteArray   -> if (!v1.contentEquals(v2)) return false\n   v1 is ShortArray && v2 is ShortArray -> if (!v1.contentEquals(v2)) return false\n   v1 is IntArray   && v2 is IntArray   -> if (!v1.contentEquals(v2)) return false\n   v1 is LongArray   && v2 is LongArray   -> if (!v1.contentEquals(v2)) return false\n   v1 is FloatArray   && v2 is FloatArray   -> if (!v1.contentEquals(v2)) return false\n   v1 is DoubleArray && v2 is DoubleArray -> if (!v1.contentEquals(v2)) return false\n   v1 is CharArray   && v2 is CharArray   -> if (!v1.contentEquals(v2)) return false\n   v1 is BooleanArray && v2 is BooleanArray -> if (!v1.contentEquals(v2))

 return false\n\n   v1 is UByteArray   && v2 is UByteArray   -> if (!v1.contentEquals(v2)) return false\n   v1 is UShortArray && v2 is UShortArray -> if (!v1.contentEquals(v2)) return false\n   v1 is UIntArray   && v2 is UIntArray   -> if (!v1.contentEquals(v2)) return false\n   v1 is ULongArray   && v2 is ULongArray   -> if (!v1.contentEquals(v2)) return false\n\n   else -> if (v1 != v2) return false\n   }\n   }\n   return true\n}\n\n@SinceKotlin(\"1.3\")\n@PublishedApi\n@kotlin.jvm.JvmName(\"contentDeepToString\")\n@kotlin.js.JsName(\"contentDeepToStringImpl\")\ninternal fun <T> Array<out T>?.contentDeepToStringImpl(): String {\n   if (this == null) return \"null\"\n   val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not to overflow Int.MAX_VALUE\n   return buildString(length) {\n   contentDeepToStringInternal(this, mutableListOf())\n   }\n}\n\n@OptIn(ExperimentalUnsignedTypes::class)\nprivate

 fun <T> Array<out T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n   if (this in processed) {\n   result.append(\"[...]\")\n   return\n   }\n   processed.add(this)\n   result.append('[')\n\n   for (i in indices) {\n   if (i != 0) {\n   result.append(\", \")\n   }\n   val element

= this[i]\n   when (element) {\n   null   -> result.append(\"null\")\n   is Array<*>   -> element.contentDeepToStringInternal(result, processed)\n   is ByteArray   -> result.append(element.contentToString())\n   is ShortArray -> result.append(element.contentToString())\n   is IntArray   -> result.append(element.contentToString())\n   is LongArray   -> result.append(element.contentToString())\n   is FloatArray -> result.append(element.contentToString())\n   is DoubleArray -> result.append(element.contentToString())\n   is CharArray   -> result.append(element.contentToString())\n   is BooleanArray -> result.append(element.contentToString())\n\n   is UByteArray -> result.append(element.contentToString())\n   is UShortArray -> result.append(element.contentToString())\n   is UIntArray   -> result.append(element.contentToString())\n   is ULongArray -> result.append(element.contentToString())\n\n   else   -> result.append(element.toString())\n   }\n   }\n\n   result.append(']')\n   processed.removeAt(processed.lastIndex)\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n\n/** Returns true if the brittle contains optimization is enabled. See KT-45438. */\ninternal expect fun brittleContainsOptimizationEnabled(): Boolean\n\n/**\n * Returns true if [brittleContainsOptimizationEnabled] is true\n * and it's safe to convert this collection to a set without changing contains method behavior.\n */\nprivate fun <T> Collection<T>.safeToConvertToSet() = brittleContainsOptimizationEnabled() && size > 2 && this is ArrayList\n\n/**\n * When [brittleContainsOptimizationEnabled] is true:\n * - Converts this [Iterable] to a set if it is not a [Collection].\n * - Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.\n * - Otherwise returns this.\n * When [brittleContainsOptimizationEnabled] is false:\n * - Converts this [Iterable] to a list if it is not a [Collection].\n * - Otherwise returns this.\n */\ninternal fun <T> Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\n   when (this) {\n   is Set -> this\n   is Collection ->\n   when {\n   source is Collection && source.size < 2 -> this\n   else -> if (this.safeToConvertToSet()) toHashSet() else this\n   }\n   else -> if (brittleContainsOptimizationEnabled()) toHashSet() else toList()\n   }\n\n/**\n * When [brittleContainsOptimizationEnabled] is true:\n * - Converts this [Iterable] to a set if it is not a [Collection].\n * - Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.\n * - Otherwise returns this.\n * When [brittleContainsOptimizationEnabled] is false:\n * - Converts this [Iterable] to a list if it is not a [Collection].\n * - Otherwise returns this.\n */\ninternal fun <T> Iterable<T>.convertToSetForSetOperation(): Collection<T> =\n   when (this) {\n   is Set -> this\n   is Collection -> if (this.safeToConvertToSet()) toHashSet() else this\n   else -> if (brittleContainsOptimizationEnabled()) toHashSet() else toList()\n   }\n\n/**\n * Converts this sequence to a set if [brittleContainsOptimizationEnabled] is true,\n * otherwise converts it to a list.\n */\ninternal fun <T> Sequence<T>.convertToSetForSetOperation(): Collection<T> =\n   if (brittleContainsOptimizationEnabled()) toHashSet() else toList()\n\n/**\n * Converts this array to a set if [brittleContainsOptimizationEnabled] is true,\n * otherwise converts it to a list.\n */\ninternal fun <T> Array<T>.convertToSetForSetOperation(): Collection<T> =\n   if (brittleContainsOptimizationEnabled()) toHashSet() else asList()","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Data class representing a value from a collection or sequence, along with its index in that collection or sequence.\n *\n * @property value the underlying value.\n * @property index the index of the value in the collection or sequence.\n */\npublic data class IndexedValue<out T>(public val index: Int, public val value: T)\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"MapAccessorsKt\")\n\npackage kotlin.collections\n\nimport kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/**\n * Returns the value of

the property for the given object from this read-only map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n * @return the property value.\n *\n * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> Map<in String, @Exact V>.getValue(thisRef:

 Any?, property: KProperty<*>): V1 =\n   @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V1)\n\n/**\n * Returns the value of the property for the given object from this mutable map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n * @return the property value.\n *\n * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n */\n@kotlin.jvm.JvmName(\"getVar\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n   @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V1)\n\n/**\n * Stores the value of the property for the given object in this mutable map.\n * @param thisRef

 the object for which the value is requested (not used).\n * @param property the metadata for the property, used to get the name of property and store the value associated with that name in the map.\n * @param value the value to set.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n   this.put(property.name, value)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n\npackage kotlin.collections\n\n/**\n * Returns the value for the given key, or the implicit default value for this map.\n * By default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\n * To create a map with implicit default value use [withDefault]

 method.\n *\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key and no implicit default was provided for that map.\n */\n@kotlin.jvm.JvmName(\"getOrImplicitDefaultNullable\")\n@PublishedApi\ninternal fun <K, V> Map<K, V>.getOrImplicitDefault(key: K): V {\n   if (this is MapWithDefault)\n   return this.getOrImplicitDefault(key)\n\n   return getOrElseNullable(key, { throw NoSuchElementException(\"Key $key is missing in the map.\") })\n}\n\n/**\n * Returns a wrapper of this read-only map, having the implicit default value provided with the specified function [defaultValue].\n *\n * This implicit default value is used when the original map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n *\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n

 */\npublic fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\n   when (this) {\n   is MapWithDefault -> this.map.withDefault(defaultValue)\n   else -> MapWithDefaultImpl(this, defaultValue)\n   }\n\n/**\n * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].\n *\n * This implicit default value is used when the original map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n *\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n */\n@kotlin.jvm.JvmName(\"withDefaultMutable\")\npublic fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\n   when (this) {\n   is MutableMapWithDefault -> this.map.withDefault(defaultValue)\n   else -> MutableMapWithDefaultImpl(this,

 defaultValue)\n   }\n\n\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\n   public val map: Map<K, V>\n   public fun getOrImplicitDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K, V> :

MutableMap<K, V>, MapWithDefault<K, V> {\n   public override val map: MutableMap<K, V>\n}\n\n\nprivate class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) : MapWithDefault<K, V> {\n   override fun equals(other: Any?): Boolean = map.equals(other)\n   override fun hashCode(): Int = map.hashCode()\n   override fun toString(): String = map.toString()\n   override val size: Int get() = map.size\n   override fun isEmpty(): Boolean = map.isEmpty()\n   override fun containsKey(key: K): Boolean = map.containsKey(key)\n   override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\n   override fun get(key: K): V? = map.get(key)\n   override val keys: Set<K> get() = map.keys\n

   override val values: Collection<V> get() = map.values\n   override val entries: Set<Map.Entry<K, V>> get() = map.entries\n\n   override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })\n}\n\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\n   override fun equals(other: Any?): Boolean = map.equals(other)\n   override fun hashCode(): Int = map.hashCode()\n   override fun toString(): String = map.toString()\n   override val size: Int get() = map.size\n   override fun isEmpty(): Boolean = map.isEmpty()\n   override fun containsKey(key: K): Boolean = map.containsKey(key)\n   override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\n   override fun get(key: K): V? = map.get(key)\n   override val keys: MutableSet<K> get() = map.keys\n   override val values: MutableCollection<V> get() = map.values\n

   override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\n\n   override fun put(key: K, value: V): V? = map.put(key, value)\n   override fun remove(key: K): V? = map.remove(key)\n   override fun putAll(from: Map<out K, V>) = map.putAll(from)\n   override fun clear() = map.clear()\n\n   override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })\n}\n\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\nimport kotlin.random.Random\n\n/**\n * Removes a single instance of the specified element from this\n * collection, if it is present.\n *\n * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`.\n *\n

 * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.remove(element: T): Boolean =\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).remove(element)\n\n/**\n * Removes all of this collection's elements that are also contained in the specified collection.\n\n * Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.\n *\n * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean =\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).removeAll(elements)\n\n/**\n * Retains only the elements in this collection

 that are contained in the specified collection.\n *\n * Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\n *\n * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the specified [element] to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T) {\n   this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Iterable<T>) {\n   this.addAll(elements)\n}\n\n/**\n

* Adds all elements of the given [elements] array to this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Array<T>) {\n   this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\n   this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the specified [element] from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(element: T) {\n   this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given [elements] collection from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\n   this.removeAll(elements)\n}\n\n/**\n * Removes

 all elements contained in the given [elements] array from this mutable collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<T>) {\n   this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements] sequence from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\n   this.removeAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\n   when (elements) {\n   is Collection -> return addAll(elements)\n   else -> {\n   var result: Boolean = false\n   for (item in elements)\n   if (add(item)) result = true\n   return result\n   }\n   }\n}\n\n/**\n * Adds all elements of the given [elements]

 sequence to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements: Sequence<T>): Boolean {\n   var result: Boolean = false\n   for (item in elements) {\n   if (add(item)) result = true\n   }\n   return result\n}\n\n/**\n * Adds all elements of the given [elements] array to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {\n   return addAll(elements.asList())\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements: Iterable<T>): Boolean {\n   return removeAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\n   val set = elements.convertToSetForSetOperation()\n

    return set.isNotEmpty() && removeAll(set)\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {\n   return elements.isNotEmpty() && removeAll(elements.convertToSetForSetOperation())\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] collection.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {\n   return retainAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] array.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements: Array<out T>): Boolean {\n   if (elements.isNotEmpty())\n   return retainAll(elements.convertToSetForSetOperation())\n   else\n   return retainNothing()\n}\n\n/**\n

 * Retains only elements of this [MutableCollection] that are contained in the given [elements] sequence.\n
/\npublic fun <T> MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {\n   val set = elements.convertToSetForSetOperation()\n   if (set.isNotEmpty())\n   return retainAll(set)\n   else\n   return retainNothing()\n}\n\nprivate fun MutableCollection<>.retainNothing(): Boolean {\n   val result = isNotEmpty()\n   clear()\n   return result\n}\n\n/**\n * Removes all elements from this [MutableIterable] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when no elements were removed and collection was not modified.\n */\npublic fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains only elements of this [MutableIterable] that

match the given [predicate].\n *\n * @return `true` if any element was removed from this collection,
 or `false` when all elements were retained and collection was not modified.\n */\npublic fun <T>
MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\n\nprivate fun
<T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\n
 var result = false\n   with(iterator()) {\n   while (hasNext())\n   if (predicate(next()) ==
predicateResultToRemove) {\n   remove()\n   result = true\n   }\n   }\n   return
result\n}\n\n/**\n * Removes the element at the specified [index] from this list.\n * In Kotlin one should use the
[MutableList.removeAt] function instead.\n */\n@Deprecated(\"Use removeAt(index) instead.\",
ReplaceWith(\"removeAt(index)\"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline
fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\n\n/**\n * Removes the first element from this
mutable list
 and returns that removed element, or throws [NoSuchElementException] if this list is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException(\"List is empty.\") else
removeAt(0)\n\n/**\n * Removes the first element from this mutable list and returns that removed element, or
returns `null` if this list is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)\n\n/**\n * Removes the last
element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is
empty.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException(\"List is empty.\") else
removeAt(lastIndex)\n\n/**\n * Removes the last element
 from this mutable list and returns that removed element, or returns `null` if this list is empty.\n
*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n/**\n * Removes all
elements from this [MutableList] that match the given [predicate].\n *\n * @return `true` if any element was
removed from this collection, or `false` when no elements were removed and collection was not modified.\n
*/\npublic fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,
true)\n\n/**\n * Retains only elements of this [MutableList] that match the given [predicate].\n *\n * @return `true`
if any element was removed from this collection, or `false` when all elements were retained and collection was not
modified.\n */\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean =
filterInPlace(predicate, false)\n\nprivate fun
 <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\n
if (this !is RandomAccess)\n   return (this as MutableIterable<T>).filterInPlace(predicate,
predicateResultToRemove)\n\n   var writeIndex: Int = 0\n   for (readIndex in 0..lastIndex) {\n   val element =
this[readIndex]\n   if (predicate(element) == predicateResultToRemove)\n   continue\n\n   if (writeIndex
!= readIndex)\n   this[writeIndex] = element\n\n   writeIndex++\n   }\n   if (writeIndex < size) {\n   for
(removeIndex in lastIndex downTo writeIndex)\n   removeAt(removeIndex)\n\n   return true\n   } else {\n
    return false\n   }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage
 kotlin.collections\n\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) :
AbstractList<T>() {\n   override val size: Int get() = delegate.size\n   override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) :
AbstractMutableList<T>() {\n   override val size: Int get() = delegate.size\n   override fun get(index: Int): T =
delegate[reverseElementIndex(index)]\n\n   override fun clear() = delegate.clear()\n   override fun removeAt(index:
Int): T = delegate.removeAt(reverseElementIndex(index))\n\n   override fun set(index: Int, element: T): T =

delegate.set(reverseElementIndex(index), element)\n   override fun add(index: Int, element: T) {\n   delegate.add(reversePositionIndex(index), element)\n   }\n}\n\nprivate fun List<*>.reverseElementIndex(index: Int) =\n   if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException(\"Element index $index must be in range [${0..lastIndex}].\")\n\nprivate fun List<*>.reversePositionIndex(index: Int) =\n   if (index in 0..size) size - index else throw IndexOutOfBoundsException(\"Position index $index must be in range [${0..size}].\")\n\n\n/**\n * Returns a reversed read-only view of the original List.\n * All changes made in the original list will be reflected in the reversed one.\n * @sample samples.collections.ReversedViews.asReversedList\n */\npublic fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\n\n/**\n * Returns a reversed mutable view of the original mutable List.\n * All changes made in the original list will be reflected in the reversed one and vice versa.\n * @sample samples.collections.ReversedViews.asReversedMutableList\n */\n@kotlin.jvm.JvmName(\"asReversedMutable\")\npublic fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n@file:OptIn(ExperimentalTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.*\nimport kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Builds a [Sequence] lazily yielding values one by one.\n *\n * @see kotlin.sequences.generateSequence\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample samples.collections.Sequences.Building.buildFibonacciSequence\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence { iterator(block) }\n\n@SinceKotlin(\"1.3\")\n@Deprecated(\"Use 'sequence { }' function instead.\", ReplaceWith(\"sequence(builderAction)\"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> buildSequence(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence { iterator(builderAction) }\n\n/**\n * Builds an [Iterator] lazily yielding values one by one.\n *\n * @sample samples.collections.Sequences.Building.buildIterator\n * @sample samples.collections.Iterables.Building.iterable\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Iterator<T> {\n   val iterator = SequenceBuilderIterator<T>()\n   iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)\n   return iterator\n}\n\n@SinceKotlin(\"1.3\")\n@Deprecated(\"Use 'iterator { }' function instead.\", ReplaceWith(\"iterator(builderAction)\"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> buildIterator(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Iterator<T> = iterator(builderAction)\n\n/**\n * The scope for yielding values of a [Sequence] or an [Iterator], provides [yield] and [yieldAll] suspension functions.\n *\n * @see sequence\n * @see iterator\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample samples.collections.Sequences.Building.buildFibonacciSequence\n */\n@RestrictsSuspension\n@SinceKotlin(\"1.3\")\npublic abstract class SequenceScope<in T> internal constructor() {\n   /**\n   * Yields a value to the [Iterator] being built and suspends\n   * until the next value is requested.\n   *\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n   * @sample samples.collections.Sequences.Building.buildFibonacciSequence\n   */\n   public abstract suspend fun yield(value: T)\n\n   /**\n   * Yields all values from the `iterator` to the [Iterator] being built\n   * and suspends until all these values are iterated and the next one is requested.\n   *\n   * The sequence of values returned by the given iterator can be potentially infinite.\n   *\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n   */\n   public abstract suspend fun yieldAll(iterator: Iterator<T>)\n\n   /**\n   * Yields a collections of values to the [Iterator] being built\n   * and suspends until all these values are iterated and the next one is requested.\n   *\n   * @sample

samples.collections.Sequences.Building.buildSequenceYieldAll\n   */\n   public suspend fun yieldAll(elements: Iterable<T>) {\n   if (elements is Collection && elements.isEmpty()) return\n   return yieldAll(elements.iterator())\n   }\n\n   /**\n   * Yields potentially infinite sequence of values to the [Iterator] being built\n   * and suspends until all these values are iterated and the next one is requested.\n   *\n   * The sequence can be potentially infinite.\n   *\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n

   */\n   public suspend fun yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())\n}\n\n@Deprecated(\"Use SequenceScope class instead.\", ReplaceWith(\"SequenceScope<T>\"), level = DeprecationLevel.ERROR)\npublic typealias SequenceBuilder<T> = SequenceScope<T>\n\nprivate typealias State = Int\n\nprivate const val State_NotReady: State = 0\nprivate const val State_ManyNotReady: State = 1\nprivate const val State_ManyReady: State = 2\nprivate const val State_Ready: State = 3\nprivate const val State_Done: State = 4\nprivate const val State_Failed: State = 5\n\nprivate class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n   private var state = State_NotReady\n   private var nextValue: T? = null\n   private var nextIterator: Iterator<T>? = null\n   var nextStep: Continuation<Unit>? = null\n\n   override fun hasNext(): Boolean {\n   while (true) {\n   when (state) {\n   State_NotReady -> {}\n

               State_ManyNotReady ->\n   if (nextIterator!!.hasNext()) {\n   state = State_ManyReady\n   return true\n   } else {\n   nextIterator = null\n   }\n   State_Done -> return false\n   State_Ready, State_ManyReady -> return true\n   else -> throw exceptionalState()\n   }\n\n   state = State_Failed\n   val step = nextStep!!\n   nextStep = null\n   step.resume(Unit)\n   }\n   }\n\n   override fun next(): T {\n   when (state) {\n   State_NotReady, State_ManyNotReady -> return nextNotReady()\n   State_ManyReady -> {\n   state = State_ManyNotReady\n   return nextIterator!!.next()\n   }\n   State_Ready -> {\n   state = State_NotReady\n   @Suppress(\"UNCHECKED_CAST\")\n   val result = nextValue as T\n   nextValue = null\n   return result\n   }\n   else -> throw exceptionalState()\n   }\n   }\n\n   private fun nextNotReady(): T {\n   if (!hasNext()) throw NoSuchElementException() else return next()\n   }\n\n   private fun exceptionalState(): Throwable = when (state) {\n   State_Done -> NoSuchElementException()\n   State_Failed -> IllegalStateException(\"Iterator has failed.\")\n   else -> IllegalStateException(\"Unexpected state of the iterator: $state\")\n   }\n\n\n   override suspend fun yield(value: T) {\n   nextValue = value\n   state = State_Ready\n   return suspendCoroutineUninterceptedOrReturn { c ->\n   nextStep = c\n   COROUTINE_SUSPENDED\n   }\n   }\n\n   override suspend fun yieldAll(iterator: Iterator<T>) {\n   if (!iterator.hasNext()) return\n   nextIterator = iterator\n   state = State_ManyReady\n   return suspendCoroutineUninterceptedOrReturn { c ->\n   nextStep = c\n   COROUTINE_SUSPENDED\n   }\n   }\n\n   // Completion continuation implementation\n   override fun resumeWith(result: Result<Unit>) {\n   result.getOrThrow() // just rethrow exception if it is there\n   state = State_Done\n   }\n\n   override val context: CoroutineContext\n   get() = EmptyCoroutineContext\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun checkWindowSizeStep(size: Int, step: Int) {\n   require(size > 0 && step > 0) {\n   if (size != step)\n   \"Both size $size and step $step must be greater than zero.\"\n   else\n   \"size $size must be greater than zero.\"\n   }\n}\n\ninternal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Sequence<List<T>> {\n   checkWindowSizeStep(size, step)\n   return Sequence { windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }\n}\n\ninternal fun <T> windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Iterator<List<T>> {\n   if (!iterator.hasNext()) return EmptyIterator\n   return iterator<List<T>> {\n   val bufferInitialCapacity = size.coerceAtMost(1024)\n   val gap = step - size\n   if (gap >= 0) {\n   var buffer = ArrayList<T>(bufferInitialCapacity)\n   var skip = 0\n   for (e in iterator) {\n   if (skip >

```
0) { skip -= 1; continue }\n                buffer.add(e)\n                if (buffer.size == size) {\n                yield(buffer)\n
        if (reuseBuffer) buffer.clear() else buffer = ArrayList(size)\n                skip = gap\n                }\n
}\n
        if (buffer.isNotEmpty()) {\n                if (partialWindows || buffer.size == size) yield(buffer)\n          }\n
} else {\n          var buffer = RingBuffer<T>(bufferInitialCapacity)\n          for (e in iterator) {\n
buffer.add(e)\n                if (buffer.isFull()) {\n                if (buffer.size < size) { buffer =
buffer.expanded(maxCapacity = size); continue }\n\n                yield(if (reuseBuffer) buffer else
ArrayList(buffer))\n                buffer.removeFirst(step)\n                }\n                }\n                if (partialWindows) {\n
        while (buffer.size > step) {\n                yield(if (reuseBuffer) buffer else ArrayList(buffer))\n
buffer.removeFirst(step)\n                }\n          if (buffer.isNotEmpty()) yield(buffer)\n                }\n                }\n
}\n}\n\ninternal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\n
private
 var fromIndex: Int = 0\n    private var _size: Int = 0\n\n    fun move(fromIndex: Int, toIndex: Int) {\n
checkRangeIndexes(fromIndex, toIndex, list.size)\n        this.fromIndex = fromIndex\n        this._size = toIndex -
fromIndex\n    }\n\n    override fun get(index: Int): E {\n        checkElementIndex(index, _size)\n\n        return
list[fromIndex + index]\n    }\n\n    override val size: Int get() = _size\n}\n\n\n/**\n * Provides ring buffer
implementation.\n *\n * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.\n
*/\nprivate class RingBuffer<T>(private val buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(),
RandomAccess {\n    init {\n        require(filledSize >= 0) { \"ring buffer filled size should not be negative but it is
$filledSize\" }\n        require(filledSize <= buffer.size) { \"ring buffer filled size: $filledSize cannot be larger than
the buffer size: ${buffer.size}\" }\n    }\n\n    constructor(capacity: Int)
 : this(arrayOfNulls<Any?>(capacity), 0)\n    private val capacity = buffer.size\n    private var startIndex: Int =
0\n\n    override var size: Int = filledSize\n        private set\n\n    override fun get(index: Int): T {\n
checkElementIndex(index, size)\n        @Suppress(\"UNCHECKED_CAST\")\n        return
buffer[startIndex.forward(index)] as T\n    }\n\n    fun isFull() = size == capacity\n\n    override fun iterator():
Iterator<T> = object : AbstractIterator<T>() {\n        private var count = size\n        private var index = startIndex\n\n
    override fun computeNext() {\n            if (count == 0) {\n                done()\n            } else {\n
@Suppress(\"UNCHECKED_CAST\")\n                setNext(buffer[index] as T)\n                index =
index.forward(1)\n                count--\n            }\n        }\n    }\n\n    @Suppress(\"UNCHECKED_CAST\")\n
override fun <T> toArray(array: Array<T>): Array<T> {\n        val result: Array<T?> =\n
        if (array.size < this.size) array.copyOf(this.size) else array as Array<T?>\n\n        val size = this.size\n\n
var widx = 0\n        var idx = startIndex\n\n        while (widx < size && idx < capacity) {\n            result[widx] =
buffer[idx] as T\n            widx++\n            idx++\n        }\n\n        idx = 0\n        while (widx < size) {\n
result[widx] = buffer[idx] as T\n            widx++\n            idx++\n        }\n        if (result.size > this.size)
result[this.size] = null\n\n        return result as Array<T>\n    }\n\n    override fun toArray(): Array<Any?> {\n
return toArray(arrayOfNulls(size))\n    }\n\n    /**\n     * Creates a new ring buffer with the capacity equal to the
minimum of [maxCapacity] and 1.5 * [capacity].\n     * The returned ring buffer contains the same elements as this
ring buffer.\n     */\n    fun expanded(maxCapacity: Int): RingBuffer<T> {\n        val newCapacity = (capacity +
(capacity shr 1) + 1).coerceAtMost(maxCapacity)\n
        val newBuffer = if (startIndex == 0) buffer.copyOf(newCapacity) else toArray(arrayOfNulls(newCapacity))\n
    return RingBuffer(newBuffer, size)\n    }\n\n    /**\n     * Add [element] to the buffer or fail with
[IllegalStateException] if no free space available in the buffer\n     */\n    fun add(element: T) {\n        if (isFull()) {\n
        throw IllegalStateException(\"ring buffer is full\")\n        }\n\n        buffer[startIndex.forward(size)] =
element\n        size++\n    }\n\n    /**\n     * Removes [n] first elements from the buffer or fails with
[IllegalArgumentException] if not enough elements in the buffer to remove\n     */\n    fun removeFirst(n: Int) {\n
 require(n >= 0) { \"n shouldn't be negative but it is $n\" }\n        require(n <= size) { \"n shouldn't be greater than
the buffer size: n = $n, size = $size\" }\n\n        if (n > 0) {\n            val start = startIndex\n            val end =
start.forward(n)\n\n            if
```

(start > end) {\n   buffer.fill(null, start, capacity)\n   buffer.fill(null, 0, end)\n   } else {\n
   buffer.fill(null, start, end)\n   }\n\n   startIndex = end\n   size -= n\n   }\n   }\n\n\n
@Suppress(\"NOTHING_TO_INLINE\")\n   private inline fun Int.forward(n: Int): Int = (this + n) %
capacity\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\n// UByteArray

==\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n   array: UByteArray, left: Int, right: Int): Int {\n   var i = left\n
var j = right\n   val pivot = array[(left + right) / 2]\n   while (i <= j) {\n   while (array[i] < pivot)\n   i++\n
   while

 (array[j] > pivot)\n   j--\n   if (i <= j) {\n   val tmp = array[i]\n   array[i] = array[j]\n
array[j] = tmp\n   i++\n   j--\n   }\n   }\n   return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n   array: UByteArray, left: Int, right: Int) {\n   val index = partition(array, left, right)\n   if (left < index
- 1)\n   quickSort(array, left, index - 1)\n   if (index < right)\n   quickSort(array, index, right)\n}\n\n//
UShortArray

==\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n   array: UShortArray, left: Int, right: Int): Int {\n   var i = left\n
var j = right\n   val pivot = array[(left + right) / 2]\n   while (i <= j) {\n   while (array[i] < pivot)\n   i++\n
   while (array[j] > pivot)\n   j--\n   if (i <= j) {\n   val tmp = array[i]\n   array[i] =
array[j]\n   array[j] = tmp\n   i++\n   j--\n   }\n   }\n   return
i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n   array: UShortArray, left: Int, right: Int) {\n   val
index = partition(array, left, right)\n   if (left < index - 1)\n   quickSort(array, left, index - 1)\n   if (index <
right)\n   quickSort(array, index, right)\n}\n\n// UIntArray

==\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n   array: UIntArray, left: Int, right: Int): Int {\n   var i = left\n
var j = right\n   val pivot = array[(left + right) / 2]\n   while (i <= j) {\n   while (array[i] < pivot)\n   i++\n
   while (array[j] > pivot)\n   j--\n   if (i <= j) {\n   val tmp = array[i]\n   array[i] = array[j]\n
array[j] = tmp\n   i++\n   j--\n   }\n   }\n   return i\n}\n\n@ExperimentalUnsignedTypes\nprivate
 fun quickSort(\n   array: UIntArray, left: Int, right: Int) {\n   val index = partition(array, left, right)\n   if (left <
index - 1)\n   quickSort(array, left, index - 1)\n   if (index < right)\n   quickSort(array, index, right)\n}\n\n//
ULongArray

==\n@Exp
erimentalUnsignedTypes\nprivate fun partition(\n   array: ULongArray, left: Int, right: Int): Int {\n   var i = left\n
var j = right\n   val pivot = array[(left + right) / 2]\n   while (i <= j) {\n   while (array[i] < pivot)\n   i++\n
   while (array[j] > pivot)\n   j--\n   if (i <= j) {\n   val tmp = array[i]\n   array[i] = array[j]\n
array[j] = tmp\n   i++\n   j--\n   }\n   }\n   return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun
quickSort(\n   array: ULongArray, left: Int, right: Int) {\n   val index = partition(array,
 left, right)\n   if (left < index - 1)\n   quickSort(array, left, index - 1)\n   if (index < right)\n   quickSort(array,
index, right)\n}\n\n\n// Interfaces

==\n/**\n
* Sorts the given array using qsort algorithm.\n */\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:
UByteArray, fromIndex: Int, toIndex: Int)   = quickSort(array, fromIndex, toIndex -
1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int)   =
quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray,
fromIndex: Int, toIndex: Int)   = quickSort(array, fromIndex, toIndex -
1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int)   =
quickSort(array, fromIndex, toIndex - 1)","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of

this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Compares this object with the specified object for order. Returns zero if this object is equal\n * to the specified [other] object, a negative number if it's less than [other], or a positive number\n * if it's greater than [other].\n *\n * This function delegates to [Comparable.compareTo] and allows to call it in infix form.\n */\n@InlineOnly\n@SinceKotlin(\"1.6\")\npublic inline infix fun <T> Comparable<T>.compareTo(other: T): Int =\n   this.compareTo(other)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\nimport kotlin.internal.InlineOnly\n\n/**\n * This marker distinguishes the

experimental contract declaration API and is used to opt-in for that feature\n * when declaring contracts of user functions.\n *\n * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalContracts::class)`,\n * or by using the compiler argument `-opt-in=kotlin.contracts.ExperimentalContracts`.\n */\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.3\")\n@RequiresOptIn\n@MustBeDocumented\npublic annotation class ExperimentalContracts\n\n/**\n * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n * can be used to describe the contract of a function.\n *\n * This type is used as a receiver type of the lambda function passed to the [contract] function.\n *\n * @see contract\n */\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin(\"1.3\")\npublic interface ContractBuilder {\n   /**\n   * Describes a situation

when a function returns normally, without any exceptions thrown.\n   *\n   * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n   *\n   */\n   // @sample samples.contracts.returnsContract\n   @ContractsDsl public fun returns(): Returns\n\n   /**\n   * Describes a situation when a function returns normally with the specified return [value].\n   *\n   * The possible values of [value] are limited to `true`, `false` or `null`.\n   *\n   * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n   *\n   */\n   // @sample samples.contracts.returnsTrueContract\n   // @sample samples.contracts.returnsFalseContract\n   // @sample samples.contracts.returnsNullContract\n   @ContractsDsl public fun returns(value: Any?): Returns\n\n   /**\n   * Describes a situation when a function returns normally with any value that is not `null`.\n   *\n   * Use [SimpleEffect.implies] function

to describe a conditional effect that happens in such case.\n   *\n   */\n   // @sample samples.contracts.returnsNotNullContract\n   @ContractsDsl public fun returnsNotNull(): ReturnsNotNull\n\n   /**\n   * Specifies that the function parameter [lambda] is invoked in place.\n   *\n   * This contract specifies that:\n   * 1. the function [lambda] can only be invoked during the call of the owner function,\n   * and it won't be invoked after that owner function call is completed;\n   * 2. _(optionally)_ the function [lambda] is invoked the amount of times specified by the [kind] parameter,\n   * see the [InvocationKind] enum for possible values.\n   *\n   * A function declaring the `callsInPlace` effect must be _inline_.\n   *\n   */\n   /* @sample samples.contracts.callsInPlaceAtMostOnceContract\n   * @sample samples.contracts.callsInPlaceAtLeastOnceContract\n   * @sample samples.contracts.callsInPlaceExactlyOnceContract\n   * @sample samples.contracts.callsInPlaceUnknownContract\n

     */\n   @ContractsDsl public fun <R> callsInPlace(lambda: Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n}\n\n/**\n * Specifies how many times a function invokes its function parameter in place.\n *\n * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.\n */\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin(\"1.3\")\npublic enum class InvocationKind {\n   /**\n   * A function parameter will be invoked one time or not invoked at all.\n   *\n   */\n   // @sample samples.contracts.callsInPlaceAtMostOnceContract\n   @ContractsDsl AT_MOST_ONCE,\n\n   /**\n   * A function parameter will be invoked one or more times.\n   *\n   */\n   // @sample samples.contracts.callsInPlaceAtLeastOnceContract\n   @ContractsDsl AT_LEAST_ONCE,\n\n   /**\n   * A

function parameter will be invoked exactly one time.\n   *\n   */\n   // @sample samples.contracts.callsInPlaceExactlyOnceContract\n

   @ContractsDsl EXACTLY_ONCE,\n\n   /**\n   * A function parameter is called in place, but it's unknown how many times it can be called.\n   *\n   */\n   // @sample samples.contracts.callsInPlaceUnknownContract\n   @ContractsDsl UNKNOWN\n}\n\n/**\n * Specifies the contract of a function.\n *\n * The contract description must be at the beginning of a function and have at least one effect.\n *\n * Only the top-level functions can have a contract for now.\n *\n * @param builder the lambda where the contract of a function is described with the help of the [ContractBuilder] members.\n *\n */\n/* @sample samples.contracts.returnsContract\n* @sample samples.contracts.returnsTrueContract\n* @sample samples.contracts.returnsFalseContract\n* @sample samples.contracts.returnsNullContract\n* @sample samples.contracts.returnsNotNullContract\n* @sample samples.contracts.callsInPlaceAtMostOnceContract\n* @sample samples.contracts.callsInPlaceAtLeastOnceContract\n* @sample samples.contracts.callsInPlaceExactlyOnceContract\n*

 @sample samples.contracts.callsInPlaceUnknownContract\n*/\n@ContractsDsl\n@ExperimentalContracts\n@InlineOnly\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline fun contract(builder: ContractBuilder.() -> Unit) { }\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n * Marks coroutine context element that intercepts coroutine continuations.\n * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and\n * intercepts all coroutine continuations with [interceptContinuation] invocations.\n *\n * [ContinuationInterceptor] behaves like a [polymorphic element][AbstractCoroutineContextKey], meaning that\n * its implementation delegates [get][CoroutineContext.Element.get] and [minusKey][CoroutineContext.Element.minusKey]\n

 * to [getPolymorphicElement] and [minusPolymorphicKey] respectively.\n * [ContinuationInterceptor] subtypes can be extracted from the coroutine context using either [ContinuationInterceptor.Key]\n * or subtype key if it extends [AbstractCoroutineContextKey].\n */\n@SinceKotlin(\"1.3\")\npublic interface ContinuationInterceptor : CoroutineContext.Element {\n   /**\n   * The key that defines *the* context interceptor.\n   */\n   companion object Key : CoroutineContext.Key<ContinuationInterceptor>\n\n   /**\n   * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\n   * This function is invoked by coroutines framework when needed and the resulting continuations are\n   * cached internally per each instance of the original [continuation].\n   *\n   * This function may simply return original [continuation] if it does not want to intercept this particular continuation.\n   *\n   * When the original [continuation]

 completes, coroutine framework invokes [releaseInterceptedContinuation]\n   * with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously\n   * returned a different continuation instance.\n   */\n   public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>\n\n   /**\n   * Invoked for the continuation instance returned by [interceptContinuation] when the original\n   * continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation]\n   * had returned a different continuation instance from the one it was invoked with.\n   *\n   * Default implementation does nothing.\n   *\n   * @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n   */\n   public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n   /* do nothing by default */\n   }\n\n   public override operator

 fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? {\n   // getPolymorphicKey specialized for ContinuationInterceptor key\n   @OptIn(ExperimentalStdlibApi::class)\n   if (key is AbstractCoroutineContextKey<*, *>) {\n   @Suppress(\"UNCHECKED_CAST\")\n   return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return if (ContinuationInterceptor === key) this as E else null\n   }\n\n   public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext {\n   // minusPolymorphicKey specialized for

ContinuationInterceptor key\n   @OptIn(ExperimentalStdlibApi::class)\n   if (key is AbstractCoroutineContextKey<*, *>) {\n   return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n   }\n   return if (ContinuationInterceptor === key) EmptyCoroutineContext else this\n   }\n}\n","/*\n
 * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n * Persistent context for the coroutine. It is an indexed set of [Element] instances.\n * An indexed set is a mix between a set and a map.\n * Every element in this set has a unique [Key].\n *\n@SinceKotlin(\"1.3\")\npublic interface CoroutineContext {\n   /**\n   * Returns the element with the given [key] from this context or `null`.\n   */\n   public operator fun <E : Element> get(key: Key<E>): E?\n\n   /**\n   * Accumulates entries of this context starting with [initial] value and applying [operation]\n   * from left to right to current accumulator value and each element of this context.\n   */\n   public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n   /**\n   * Returns a context containing elements from this
 context and elements from other [context].\n   * The elements from this context with the same key as in the other one are dropped.\n   */\n   public operator fun plus(context: CoroutineContext): CoroutineContext =\n   if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\n   context.fold(this) { acc, element ->\n   val removed = acc.minusKey(element.key)\n   if (removed === EmptyCoroutineContext) element else {\n   // make sure interceptor is always last in the context (and thus is fast to get when present)\n   val interceptor = removed[ContinuationInterceptor]\n   if (interceptor == null) CombinedContext(removed, element) else {\n   val left = removed.minusKey(ContinuationInterceptor)\n   if (left === EmptyCoroutineContext) CombinedContext(element, interceptor) else\n   CombinedContext(CombinedContext(left, element), interceptor)\n   }\n   }\n   }\n\n   /**\n   * Returns a context containing elements from this context, but without an element with\n   * the specified [key].\n   */\n   public fun minusKey(key: Key<*>): CoroutineContext\n\n   /**\n   * Key for the elements of [CoroutineContext]. [E] is a type of element with this key.\n   */\n   public interface Key<E : Element>\n\n   /**\n   * An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.\n   */\n   public interface Element : CoroutineContext {\n   /**\n   * A key of this coroutine context element.\n   */\n   public val key: Key<*>\n\n   public override operator fun <E : Element> get(key: Key<E>): E? =\n   @Suppress(\"UNCHECKED_CAST\")\n   if (this.key == key) this as E else null\n\n   public override fun <R> fold(initial: R, operation: (R, Element) ->
 R): R =\n   operation(initial, this)\n\n   public override fun minusKey(key: Key<*>): CoroutineContext =\n   if (this.key == key) EmptyCoroutineContext else this\n   }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.CoroutineContext.Element\nimport kotlin.coroutines.CoroutineContext.Key\n\n/**\n * Base class for [CoroutineContext.Element] implementations.\n */\n@SinceKotlin(\"1.3\")\npublic abstract class AbstractCoroutineContextElement(public override val key: Key<*>) : Element\n\n/**\n * Base class for [CoroutineContext.Key] associated with polymorphic [CoroutineContext.Element] implementation.\n * Polymorphic element implementation implies delegating its [get][Element.get] and [minusKey][Element.minusKey]\n * to [getPolymorphicElement]
 and [minusPolymorphicKey] respectively.\n *\n * Polymorphic elements can be extracted from the coroutine context using both element key and its supertype key.\n * Example of polymorphic elements:\n * ```\n * open class BaseElement : CoroutineContext.Element {\n *   companion object Key : CoroutineContext.Key<BaseElement>\n *   override val key: CoroutineContext.Key<*> get() = Key\n *   // It is important to use getPolymorphicKey and minusPolymorphicKey\n *   override fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? = getPolymorphicElement(key)\n *   override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext = minusPolymorphicKey(key)\n * }\n *\n * class DerivedElement : BaseElement() {\n *

companion object Key : AbstractCoroutineContextKey<BaseElement, DerivedElement>(BaseElement, { it as? DerivedElement })\n * }\n * // Now it is possible to query both `BaseElement` and `DerivedElement`\n * someContext[BaseElement] // Returns BaseElement?,
 non-null both for BaseElement and DerivedElement instances\n * someContext[DerivedElement] // Returns DerivedElement?, non-null only for DerivedElement instance\n * ```\n * @param B base class of a polymorphic element\n * @param baseKey an instance of base key\n * @param E element type associated with the current key\n * @param safeCast a function that can safely cast abstract [CoroutineContext.Element] to the concrete [E] type\n *
        and return the element if it is a subtype of [E] or `null` otherwise.\n
/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic abstract class AbstractCoroutineContextKey<B : Element, E : B>(\n   baseKey: Key<B>,\n   private val safeCast: (element: Element) -> E?\n) : Key<E> {\n   private val topmostKey: Key<> = if (baseKey is AbstractCoroutineContextKey<*, *>) baseKey.topmostKey else baseKey\n\n   internal fun tryCast(element: Element): E? = safeCast(element)\n   internal fun isSubKey(key: Key<*>): Boolean = key === this || topmostKey
 === key\n}\n\n/**\n * Returns the current element if it is associated with the given [key] in a polymorphic manner or `null` otherwise.\n * This method returns non-null value if either [Element.key] is equal to the given [key] or if the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See [AbstractCoroutineContextKey] for the example of usage.\n
/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic fun <E : Element> Element.getPolymorphicElement(key: Key<E>): E? {\n   if (key is AbstractCoroutineContextKey<, *>) {\n   @Suppress(\"UNCHECKED_CAST\")\n   return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return if (this.key === key) this as E else null\n}\n\n/**\n * Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner\n * or `null` otherwise.\n * This method returns empty context if either [Element.key] is equal to the
 given [key] or if the [key] is associated\n * with [Element.key] via [AbstractCoroutineContextKey].\n * See [AbstractCoroutineContextKey] for the example of usage.\n
/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic fun Element.minusPolymorphicKey(key: Key<>): CoroutineContext {\n   if (key is AbstractCoroutineContextKey<*, *>) {\n   return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n   }\n   return if (this.key === key) EmptyCoroutineContext else this\n}\n\n/**\n * An empty coroutine context.\n */\n@SinceKotlin(\"1.3\")\npublic object EmptyCoroutineContext : CoroutineContext, Serializable {\n   private const val serialVersionUID: Long = 0\n   private fun readResolve(): Any = EmptyCoroutineContext\n\n   public override fun <E : Element> get(key: Key<E>): E? = null\n   public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n   public override fun plus(context: CoroutineContext): CoroutineContext
 = context\n   public override fun minusKey(key: Key<*>): CoroutineContext = this\n   public override fun hashCode(): Int = 0\n   public override fun toString(): String = \"EmptyCoroutineContext\"\n}\n\n//---------------------- internal impl ---------------------\n\n// this class is not exposed, but is hidden inside implementations\n// this is a left-biased list, so that `plus` works naturally\n@SinceKotlin(\"1.3\")\ninternal class CombinedContext(\n   private val left: CoroutineContext,\n   private val element: Element\n) : CoroutineContext, Serializable {\n\n   override fun <E : Element> get(key: Key<E>): E? {\n   var cur = this\n   while (true) {\n   cur.element[key]?.let { return it }\n   val next = cur.left\n   if (next is CombinedContext) {\n   cur = next\n   } else {\n   return next[key]\n   }\n   }\n   }\n\n   public override fun <R> fold(initial: R, operation: (R, Element) -> R):
 R =\n   operation(left.fold(initial, operation), element)\n\n   public override fun minusKey(key: Key<*>): CoroutineContext {\n   element[key]?.let { return left }\n   val newLeft = left.minusKey(key)\n   return when {\n   newLeft === left -> this\n   newLeft === EmptyCoroutineContext -> element\n   else -> CombinedContext(newLeft, element)\n   }\n   }\n\n   private fun size(): Int {\n   var cur = this\n   var size = 2\n   while (true) {\n   cur = cur.left as? CombinedContext ?: return size\n   size++\n   }\n   }\n\n   private fun contains(element: Element): Boolean =\n   get(element.key) == element\n\n   private fun

containsAll(context: CombinedContext): Boolean {\n   var cur = context\n   while (true) {\n   if (!contains(cur.element)) return false\n   val next = cur.left\n   if (next is CombinedContext) {\n   cur = next\n   }

else {\n   return contains(next as Element)\n   }\n   }\n }\n\n   override fun equals(other: Any?): Boolean =\n   this === other || other is CombinedContext && other.size() == size() && other.containsAll(this)\n\n   override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n   override fun toString(): String =\n   \"[\" + fold(\"\") { acc, element ->\n   if (acc.isEmpty()) element.toString() else \"$acc, $element\"\n   } + \"]\"\n\n   private fun writeReplace(): Any {\n   val n = size()\n   val elements = arrayOfNulls<CoroutineContext>(n)\n   var index = 0\n   fold(Unit) { _, element -> elements[index++] = element }\n   check(index == n)\n   @Suppress(\"UNCHECKED_CAST\")\n   return Serialized(elements as Array<CoroutineContext>)\n   }\n\n   private class Serialized(val elements: Array<CoroutineContext>) : Serializable {\n   companion object {\n   private const val serialVersionUID: Long = 0L\n   }\n\n   private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\n   }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

/\n\n@file:kotlin.jvm.JvmName(\"IntrinsicsKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin.coroutines.intrinsics\n\nimport kotlin.contracts.\nimport kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Obtains the current continuation instance inside suspend functions and either suspends\n * currently running coroutine or returns result immediately without suspension.\n *\n * If the [block] returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution and will\n * not return any result immediately. In this case, the [Continuation] provided to the [block] shall

be\n * resumed by invoking [Continuation.resumeWith] at some moment in the\n * future when the result becomes available to resume the computation.\n *\n * Otherwise, the return value of the [block] must have a type assignable to [T] and represents the result of this suspend function.\n * It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.\n * As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked,\n * its proper return type remains on the conscience of the suspend function's author.\n *\n * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the\n * [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n *\n * Note

that it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously\n * in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current\n * continuation instance.\n

*/\n@SinceKotlin(\"1.3\")\n@InlineOnly\n@Suppress(\"UNUSED_PARAMETER\", \"RedundantSuspendModifier\")\npublic suspend inline fun <T> suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE) }\n   throw NotImplementedError(\"Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic\")\n}\n\n/**\n * This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that\n * the execution was suspended and will not return any result immediately.\n *\n * **Note: this value should not be used in general code.** Using it outside of the context of\n * `suspendCoroutineUninterceptedOrReturn`

function return value (including, but not limited to,\n * storing this value in other properties, returning it from other functions, etc)\n * can lead to unspecified behavior of the code.\n */\n\n// It is implemented as property with getter to avoid ProGuard <clinit> problem with multifile IntrinsicsKt class\n@SinceKotlin(\"1.3\")\npublic val COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED\n\n// Using enum here ensures two important properties:\n// 1. It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support enums)\n// 2. It improves debugging experience, since you clearly

see toString() value of those objects and what package they come from\n@SinceKotlin(\"1.3\")\n@PublishedApi // This class is Published API via serialized representation of SafeContinuation, don't rename/move\ninternal enum class CoroutineSingletons { COROUTINE_SUSPENDED, UNDECIDED, RESUMED }\n","/*\n * Copyright 2010-2018

JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.experimental\n\n/** Performs a bitwise AND operation between the two values.

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\n\n/** Performs a bitwise OR operation between the two values.

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()\n\n/** Performs a bitwise XOR operation between the two values.

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\n\n/** Inverts the bits in this value.

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte = (this.toInt().inv()).toByte()\n\n\n/**

 Performs a bitwise AND operation between the two values.

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\n\n/** Performs a bitwise OR operation between the two values.

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.or(other: Short): Short = (this.toInt() or other.toInt()).toShort()\n\n/** Performs a bitwise XOR operation between the two values.

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\n\n/** Inverts the bits in this value.

/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short = (this.toInt().inv()).toShort()\n\n\n","/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache

 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.experimental\n\n/**\n * The experimental marker for type inference augmenting annotations.\n *\n * Any usage of a declaration annotated with `@ExperimentalTypeInference` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTypeInference::class)`,\n * or by using the compiler argument `-opt-in=kotlin.experimental.ExperimentalTypeInference`.\n */\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@SinceKotlin(\"1.3\")\npublic annotation class ExperimentalTypeInference\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding

 type should be ignored during type inference.\n

*/\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class NoInfer\n\n/**\n * Specifies that the constraint built for the type during type inference should be an equality one.\n

*/\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class Exact\n\n/**\n * Specifies that a corresponding member has the lowest priority in overload resolution.\n

*/\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class LowPriorityInOverloadResolution\n\n/**\n * Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\n * an extension annotated with this annotation will win in overload resolution over a member with the same signature.\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal

 annotation class HidesMembers\n\n/**\n * The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\n

*/\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class OnlyInputTypes\n\n/**\n * Specifies that this function should not be called directly without inlining\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class InlineOnly\n\n/**\n * Specifies that this declaration can have dynamic receiver type.\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class DynamicExtension\n\n/**\n * The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property,\n * the backing field of which is accessible at the point where the corresponding argument is passed.\n */\n@Target(AnnotationTarget.VALUE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.2\")\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/**\n * Specifies that this declaration is only completely supported since the specified version.\n *\n * The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.\n * The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear\n * to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error\n * is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.\n *\n * [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.\n *

 Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going to\n * treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports\n * [RequireKotlinVersionKind.LANGUAGE_VERSION], [RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].\n * If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\n * Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement\n * on the language version.\n *\n * This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata.\n */\n@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR, AnnotationTarget.TYPEALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin(\"1.2\")\ninternal

 annotation class RequireKotlin(\n   val version: String,\n   val message: String = \"\",\n   val level: DeprecationLevel = DeprecationLevel.ERROR,\n   val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE_VERSION,\n   val errorCode: Int = -1\n)\n\n/**\n * The kind of the version that is required by [RequireKotlin].\n */\n@SinceKotlin(\"1.2\")\ninternal enum class RequireKotlinVersionKind {\n   LANGUAGE_VERSION,\n   COMPILER_VERSION,\n   API_VERSION,\n}\n\n/**\n * Specifies that this declaration is a part of special DSL, used for constructing function's contract.\n */\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.2\")\ninternal annotation class ContractsDsl\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Standard property delegates.\n */\npublic object Delegates {\n   /**\n   * Returns a property delegate for a read/write property with a non-`null` value that is initialized not during\n   * object construction time but at a later time. Trying to read the property before the initial value has been\n   * assigned results in an exception.\n   *\n   * @sample samples.properties.Delegates.notNullDelegate\n   */\n   public fun <T : Any> notNull(): ReadWriteProperty<Any?, T> = NotNullVar()\n\n   /**\n   * Returns a property delegate for a read/write property that calls a specified callback function when changed.\n   * @param initialValue the initial value of the property.\n   * @param onChange the callback which is called after the change of the property is made. The value of the

property\n   * has already been changed when this callback is invoked.\n   *\n   * @sample
samples.properties.Delegates.observableDelegate\n   */\n   public
 inline fun <T> observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue:
T) -> Unit):\n   ReadWriteProperty<Any?, T> =\n   object : ObservableProperty<T>(initialValue) {\n
override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue,
newValue)\n   }\n\n   /**\n   * Returns a property delegate for a read/write property that calls a specified
callback function when changed,\n   * allowing the callback to veto the modification.\n   * @param initialValue
the initial value of the property.\n   * @param onChange the callback which is called before a change to the
property value is attempted.\n   * The value of the property hasn't been changed yet, when this callback is
invoked.\n   * If the callback returns `true` the value of the property is being set to the new value,\n   * and if the
callback returns `false` the new value is discarded and the property remains
 its old value.\n   *\n   * @sample samples.properties.Delegates.vetoableDelegate\n   * @sample
samples.properties.Delegates.throwVetoableDelegate\n   */\n   public inline fun <T> vetoable(initialValue: T,
crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):\n
ReadWriteProperty<Any?, T> =\n   object : ObservableProperty<T>(initialValue) {\n   override fun
beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue,
newValue)\n   }\n}\n\n\nprivate class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {\n   private var
value: T? = null\n\n   public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\n   return value
?: throw IllegalStateException(\"Property ${property.name} should be initialized before get.\")\n   }\n\n   public
override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\n   this.value = value\n
}\n}\n\n","/*\n
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Base interface that can be used for implementing
property delegates of read-only properties.\n *\n * This is provided only for convenience; you don't have to extend
this interface\n * as long as your property delegate has methods with the same signatures.\n *\n * @param T the
type of object which owns the delegated property.\n * @param V the type of the property value.\n */\npublic fun
interface ReadOnlyProperty<in T, out V> {\n   /**\n   * Returns the value of the property for the given object.\n
* @param thisRef the object for which the value is requested.\n   * @param property the metadata for the
property.\n   * @return the property value.\n   */\n   public operator fun getValue(thisRef:
 T, property: KProperty<*>): V\n}\n\n/**\n * Base interface that can be used for implementing property delegates of
read-write properties.\n *\n * This is provided only for convenience; you don't have to extend this interface\n * as
long as your property delegate has methods with the same signatures.\n *\n * @param T the type of object which
owns the delegated property.\n * @param V the type of the property value.\n */\npublic interface
ReadWriteProperty<in T, V> : ReadOnlyProperty<T, V> {\n   /**\n   * Returns the value of the property for the
given object.\n   * @param thisRef the object for which the value is requested.\n   * @param property the
metadata for the property.\n   * @return the property value.\n   */\n   public override operator fun
getValue(thisRef: T, property: KProperty<*>): V\n\n   /**\n   * Sets the value of the property for the given
object.\n   * @param thisRef the object for which the value is requested.\n   * @param property the metadata for
 the property.\n   * @param value the value to set.\n   */\n   public operator fun setValue(thisRef: T, property:
KProperty<*>, value: V)\n}\n\n/**\n * Base interface that can be used for implementing property delegate
providers.\n *\n * This is provided only for convenience; you don't have to extend this interface\n * as long as your
delegate provider has a method with the same signature.\n *\n * @param T the type of object which owns the
delegated property.\n * @param D the type of property delegates this provider provides.\n
*/\n@SinceKotlin(\"1.4\")\npublic fun interface PropertyDelegateProvider<in T, out D> {\n   /**\n   * Returns the
delegate of the property for the given object.\n   *\n   * This function can be used to extend the logic of creating
the object (e.g. perform validation checks)\n   * to which the property implementation is delegated.\n   *\n   *
@param thisRef the object for which property delegate is requested.\n   * @param property the metadata

for the property.\n   * @return the property delegate.\n   */\n   public operator fun provideDelegate(thisRef: T, property: KProperty<*>): D\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Implements the core logic of a property delegate for a read/write property that calls callback functions when changed.\n * @param initialValue the initial value of the property.\n */\npublic abstract class ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {\n   private var value = initialValue\n\n   /**\n   * The callback which is called before a change to the property value is attempted.\n   * The value of the property hasn't been changed yet, when this callback is invoked.\n   * If the callback returns `true` the value of the property is being set to the new value,\n   * and if the callback returns `false` the new value is discarded and the property remains its old value.\n   */\n   protected open fun beforeChange(property: KProperty<*>, oldValue: V, newValue: V): Boolean = true\n\n   /**\n   * The callback which is called after the change of the property is made. The value of the property\n   * has already been changed when this callback is invoked.\n   */\n   protected open fun afterChange(property: KProperty<*>, oldValue: V, newValue: V): Unit { }\n\n   public override fun getValue(thisRef: Any?, property: KProperty<*>): V {\n   return value\n   }\n\n   public override fun setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n   val oldValue = this.value\n   if (!beforeChange(property, oldValue, value)) {\n   return\n   }\n   this.value = value\n   afterChange(property, oldValue, value)\n   }\n}","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress(\"PackageDirectoryMismatch\")\npackage kotlin\n\nimport kotlin.reflect.*\n\n/**\n * An extension operator that allows delegating a read-only property of type [V]\n * to a property reference to a property of type [V] or its subtype.\n *\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n * The reference is without a receiver, i.e. it either references a top-level property or\n * has the receiver bound to it.\n *\n * Example:\n *\n * ```\n * class Login(val username: String)\n * val defaultLogin = Login(\"Admin\")\n * val defaultUsername by defaultLogin::username\n * // equivalent to\n * val defaultUserName get() = defaultLogin.username\n * ```\n *\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> KProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>): V {\n   return get()\n}\n\n/**\n * An extension operator that allows delegating a mutable property of type [V]\n * to a property reference to a mutable property of the same type [V].\n *\n * @receiver A property reference to a mutable property of type [V].\n * The reference is without a receiver, i.e. it either references a top-level property or\n * has the receiver bound to it.\n *\n * Example:\n *\n * ```\n * class Login(val username: String, var incorrectAttemptCounter: Int = 0)\n * val defaultLogin = Login(\"Admin\")\n * var defaultLoginAttempts by defaultLogin::incorrectAttemptCounter\n * // equivalent to\n * var defaultLoginAttempts: Int\n *   get() = defaultLogin.incorrectAttemptCounter\n *   set(value) { defaultLogin.incorrectAttemptCounter = value }\n * ```\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> KMutableProperty0<V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n   set(value)\n}\n\n/**\n * An extension operator that allows delegating a read-only member or extension property of type [V]\n * to a property reference to a member or extension property of type [V] or its subtype.\n *\n * @receiver A property reference to a read-only or mutable property of type [V] or its subtype.\n * The reference has an unbound receiver of type [T].\n *\n * Example:\n *\n * ```\n * class Login(val username: String)\n * val Login.user by Login::username\n * // equivalent to\n * val Login.user get() = this.username\n * ```\n *\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KProperty1<T, V>.getValue(thisRef: T, property: KProperty<*>): V {\n   return get(thisRef)\n}\n\n/**\n * An extension operator that allows delegating a mutable member or extension property of type [V]\n * to a property reference to a member or extension mutable property of the same type [V].\n *\n * @receiver A property reference to a read-only or mutable property

of type [V] or its subtype.\n * The reference has an unbound receiver of type [T].\n *\n * Example:\n *\n * ```\n * class Login(val username: String, var incorrectAttemptCounter: Int)\n * var Login.attempts by Login::incorrectAttemptCounter\n * // equivalent to\n * var Login.attempts: Int\n *   get() = this.incorrectAttemptCounter\n *   set(value) { this.incorrectAttemptCounter = value }\n * ```\n */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, V> KMutableProperty1<T, V>.setValue(thisRef: T, property: KProperty<*>, value: V) {\n   set(thisRef, value)\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport kotlin.math.nextDown\n\n/**\n * An abstract class that is implemented by random number generator algorithms.\n *\n * The companion object [Random.Default] is the default instance of [Random].\n *\n * To get a seeded instance of random generator use [Random] function.\n *\n * @sample samples.random.Randoms.defaultRandom\n */\n@SinceKotlin(\"1.3\")\npublic abstract class Random {\n\n   /**\n   * Gets the next random [bitCount] number of bits.\n   *\n   * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining upper bits are zero.\n   *\n   * @param bitCount number of bits to generate, must be in range 0..32, otherwise the behavior is unspecified.\n   *\n   * @sample samples.random.Randoms.nextBits\n   */\n   public abstract fun nextBits(bitCount: Int): Int\n\n   /**\n   * Gets the next random `Int` from the random number generator.\n   *\n   * Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).\n   *\n   * @sample samples.random.Randoms.nextInt\n   */\n   public open fun nextInt(): Int = nextBits(32)\n\n   /**\n   * Gets the next random non-negative `Int` from the random number generator less than the specified [until] bound.\n   *\n   * Generates an `Int` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n   *\n   * @param until must be positive.\n   *\n   * @throws IllegalArgumentException if [until] is negative or zero.\n   *\n   * @sample samples.random.Randoms.nextIntFromUntil\n   */\n   public open fun nextInt(until: Int): Int = nextInt(0, until)\n\n   /**\n   * Gets the next random `Int` from the random number generator in the specified range.\n   *\n   * Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n   *\n   * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n   *\n   * @sample samples.random.Randoms.nextIntFromUntil\n   */\n   public open fun nextInt(from: Int, until: Int): Int {\n   checkRangeBounds(from, until)\n   val n = until - from\n   if (n > 0 || n == Int.MIN_VALUE) {\n   val rnd = if (n and -n == n) {\n   val bitCount = fastLog2(n)\n   nextBits(bitCount)\n   } else {\n   var v: Int\n   do {\n   val bits = nextInt().ushr(1)\n   v = bits % n\n   } while (bits - v + (n - 1) < 0)\n   v\n   }\n   return from + rnd\n   } else {\n   while (true) {\n   val rnd = nextInt()\n   if (rnd in from until until) return rnd\n   }\n   }\n   }\n\n   /**\n   * Gets the next random `Long` from the random number generator.\n   *\n   * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n   *\n   * @sample samples.random.Randoms.nextLong\n   */\n   public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\n\n   /**\n   * Gets the next random non-negative `Long` from the random number generator less than the specified [until] bound.\n   *\n   * Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n   *\n   * @param until must be positive.\n   *\n   * @throws IllegalArgumentException if [until] is negative or zero.\n   *\n   * @sample samples.random.Randoms.nextLongFromUntil\n   */\n   public open fun nextLong(until: Long): Long = nextLong(0, until)\n\n   /**\n   * Gets the next random `Long` from the random number generator in the specified range.\n   *\n   * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n   *\n   * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n   *\n   * @sample samples.random.Randoms.nextLongFromUntil\n   */\n   public open fun nextLong(from: Long, until: Long): Long {\n   checkRangeBounds(from, until)\n   val n = until - from\n   if (n > 0) {\n   val rnd: Long\n   if (n and -n == n) {\n   val nLow = n.toInt()\n   val nHigh = (n ushr 32).toInt()\n   rnd = when {\n   nLow != 0 -> {\n```

val bitCount = fastLog2(nLow)\n   // toUInt().toLong()\n   nextBits(bitCount).toLong() and 0xFFFF_FFFF\n   }\n   nHigh == 1 ->\n   // toUInt().toLong()\n   nextInt().toLong() and 0xFFFF_FFFF\n   else -> {\n   val bitCount = fastLog2(nHigh)\n   nextBits(bitCount).toLong().shl(32) + (nextInt().toLong() and 0xFFFF_FFFF)\n   }\n   }\n   } else {\n   var v: Long\n   do {\n   val bits = nextLong().ushr(1)\n   v = bits % n\n   } while (bits - v + (n - 1) < 0)\n   rnd = v\n   }\n   return from + rnd\n   } else {\n   while (true) {\n   val rnd = nextLong()\n   if (rnd in from until until) return rnd\n   }\n   }\n   }\n\n   /**\n   * Gets the next random [Boolean] value.\n   *\n   * @sample samples.random.Randoms.nextBoolean\n   */\n   public open fun nextBoolean(): Boolean = nextBits(1) != 0\n\n   /**\n   * Gets the next random [Double] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n   *\n   * @sample samples.random.Randoms.nextDouble\n   */\n   public open fun nextDouble(): Double = doubleFromParts(nextBits(26), nextBits(27))\n\n   /**\n   * Gets the next random non-negative `Double` from the random number generator less than the specified [until] bound.\n   *\n   * Generates a `Double` random value uniformly distributed between 0 (inclusive) and [until] (exclusive).\n   *\n   * @throws IllegalArgumentException if [until] is negative or zero.\n   *\n   * @sample samples.random.Randoms.nextDoubleFromUntil\n   */\n   public open fun nextDouble(until: Double): Double = nextDouble(0.0, until)\n\n   /**\n   * Gets the next random `Double` from the random number generator in the specified range.\n   *\n   * Generates a `Double` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n   *\n   * [from] and [until] must be finite otherwise the behavior is unspecified.\n   *\n   * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n   *\n   * @sample samples.random.Randoms.nextDoubleFromUntil\n   */\n   public open fun nextDouble(from: Double, until: Double): Double {\n   checkRangeBounds(from, until)\n   val size = until - from\n   val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n   val r1 = nextDouble() * (until / 2 - from / 2)\n   from + r1 + r1\n   } else {\n   from + nextDouble() * size\n   }\n   return if (r >= until) until.nextDown() else r\n   }\n\n   /**\n   * Gets the next random [Float] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n   *\n   * @sample samples.random.Randoms.nextFloat\n   */\n   public open fun nextFloat(): Float = nextBits(24) / (1 shl 24).toFloat()\n\n   /**\n   * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive\n   * with random bytes.\n   *\n   * @return [array] with the subrange filled with random bytes.\n   *\n   * @sample samples.random.Randoms.nextBytes\n   */\n   public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n   require(fromIndex in 0..array.size && toIndex in 0..array.size) { \"fromIndex ($fromIndex) or toIndex ($toIndex) are out of range: 0..${array.size}.\" }\n   require(fromIndex <= toIndex) { \"fromIndex ($fromIndex) must be not greater than toIndex ($toIndex).\" }\n\n   val steps = (toIndex - fromIndex) / 4\n\n   var position = fromIndex\n   repeat(steps) {\n   val v = nextInt()\n   array[position] = v.toByte()\n   array[position + 1] = v.ushr(8).toByte()\n   array[position + 2] = v.ushr(16).toByte()\n   array[position + 3] = v.ushr(24).toByte()\n   position += 4\n   }\n\n   val remainder = toIndex - position\n   val vr = nextBits(remainder * 8)\n   for (i in 0 until remainder) {\n   array[position + i] = vr.ushr(i * 8).toByte()\n   }\n\n   return array\n   }\n\n   /**\n   * Fills the specified byte [array] with random bytes and returns it.\n   *\n   * @return [array] filled with random bytes.\n   *\n   * @sample samples.random.Randoms.nextBytes\n   */\n   public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n\n   /**\n   * Creates a byte array of the specified [size], filled with random bytes.\n   *\n   * @sample samples.random.Randoms.nextBytes\n   */\n   public open fun nextBytes(size: Int): ByteArray = nextBytes(ByteArray(size))\n\n\n   /**\n   * The default random number generator.\n   *\n   * On JVM this generator is thread-safe, its methods can be invoked from multiple threads.\n   *\n   * @sample samples.random.Randoms.defaultRandom\n   */\n   companion object Default : Random(), Serializable {\n   private val defaultRandom: Random = defaultPlatformRandom()\n\n   private object

Serialized : Serializable {\n   private const val serialVersionUID = 0L\n\n   private fun readResolve(): Any = Random\n   }\n\n   private fun writeReplace(): Any = Serialized\n\n

    override fun nextBits(bitCount: Int): Int = defaultRandom.nextBits(bitCount)\n   override fun nextInt(): Int = defaultRandom.nextInt()\n   override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)\n   override fun nextInt(from: Int, until: Int): Int = defaultRandom.nextInt(from, until)\n\n   override fun nextLong(): Long = defaultRandom.nextLong()\n   override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)\n   override fun nextLong(from: Long, until: Long): Long = defaultRandom.nextLong(from, until)\n\n   override fun nextBoolean(): Boolean = defaultRandom.nextBoolean()\n\n   override fun nextDouble(): Double = defaultRandom.nextDouble()\n   override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\n   override fun nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\n\n   override fun nextFloat(): Float = defaultRandom.nextFloat()\n\n   override

 fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)\n   override fun nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)\n   override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int): ByteArray =\n   defaultRandom.nextBytes(array, fromIndex, toIndex)\n   }\n}\n/**\n * Returns a repeatable random number generator seeded with the given [seed] `Int` value.\n *\n * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\n *\n * *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return\n * a sequence of values different from the current one for a given seed.\n *\n * On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.\n *\n * @sample samples.random.Randoms.seededRandom\n */\n@SinceKotlin(\"1.3\")\npublic fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))\n\n/**\n * Returns a repeatable random number generator seeded with the given [seed] `Long` value.\n *\n * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\n *\n * *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return\n * a sequence of values different from the current one for a given seed.\n *\n * On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without proper synchronization.\n *\n * @sample samples.random.Randoms.seededRandom\n */\n@SinceKotlin(\"1.3\")\npublic fun Random(seed: Long): Random = XorWowRandom(seed.toInt(), seed.shr(32).toInt())\n\n/**\n * Gets the next random `Int` from the random number generator in the specified [range].\n *\n * Generates an `Int` random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n

 *\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun Random.nextInt(range: IntRange): Int = when {\n   range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n   range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)\n   range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n   else -> nextInt()\n}\n\n/**\n * Gets the next random `Long` from the random number generator in the specified [range].\n *\n * Generates a `Long` random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun Random.nextLong(range: LongRange): Long = when {\n   range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n   range.last < Long.MAX_VALUE -> nextLong(range.first, range.last

 + 1)\n   range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) + 1\n   else -> nextLong()\n}\n\n\ninternal expect fun defaultPlatformRandom(): Random\ninternal expect fun doubleFromParts(hi26: Int, low27: Int): Double\n\ninternal fun fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()\n\n/** Takes upper [bitCount] bits (0..32) from this number. */\ninternal fun Int.takeUpperBits(bitCount: Int): Int =\n   this.ushr(32 - bitCount) and (-bitCount).shr(31)\n\ninternal fun checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }\ninternal fun checkRangeBounds(from: Long, until: Long) = require(until > from) { boundsErrorMessage(from, until) }\ninternal

fun checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun boundsErrorMessage(from: Any, until: Any) = \"Random range is empty: [$from, $until).\"\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin

 Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\n\n/**\n * Gets the next random [UInt] from the random number generator.\n *\n * Generates a [UInt] random value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextUInt(): UInt = nextInt().toUInt()\n\n/**\n * Gets the next random [UInt] from the random number generator less than the specified [until] bound.\n *\n * Generates a [UInt] random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextUInt(until: UInt): UInt = nextUInt(0u, until)\n\n/**\n * Gets the next random

 [UInt] from the random number generator in the specified range.\n *\n * Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextUInt(from: UInt, until: UInt): UInt {\n   checkUIntRangeBounds(from, until)\n\n   val signedFrom = from.toInt() xor Int.MIN_VALUE\n   val signedUntil = until.toInt() xor Int.MIN_VALUE\n\n   val signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\n   return signedResult.toUInt()\n}\n\n/**\n * Gets the next random [UInt] from the random number generator in the specified [range].\n *\n * Generates a [UInt] random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is

 empty.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextUInt(range: UIntRange): UInt = when {\n   range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n   range.last < UInt.MAX_VALUE -> nextUInt(range.first, range.last + 1u)\n   range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) + 1u\n   else -> nextUInt()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator.\n *\n * Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and [ULong.MAX_VALUE] (inclusive).\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextULong(): ULong = nextLong().toULong()\n\n/**\n * Gets the next random [ULong] from the random number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly distributed between `0` (inclusive) and the specified [until] bound

 (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n/**\n * Gets the next random [ULong] from the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextULong(from: ULong, until: ULong): ULong {\n   checkULongRangeBounds(from, until)\n\n   val signedFrom = from.toLong() xor Long.MIN_VALUE\n   val signedUntil = until.toLong() xor Long.MIN_VALUE\n\n   val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n   return signedResult.toULong()\n}\n\n/**\n * Gets the next random

 [ULong] from the random number generator in the specified [range].\n *\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Random.nextULong(range: ULongRange): ULong = when {\n   range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n   range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)\n   range.first > ULong.MIN_VALUE -> nextULong(range.first - 1u, range.last) + 1u\n   else -> nextULong()\n}\n\n/**\n * Fills the specified unsigned byte [array] with random bytes and returns it.\n *\n * @return [array] filled with random bytes.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray): UByteArray {\n   nextBytes(array.asByteArray())\n

    return array\n}\n\n/**\n * Creates an unsigned byte array of the specified [size], filled with random bytes.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()\n\n/**\n * Fills a subrange of the specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.\n *\n * @return [array] with the subrange filled with random bytes.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray, fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\n   nextBytes(array.asByteArray(), fromIndex, toIndex)\n   return array\n}\n\n\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until > from) { boundsErrorMessage(from, until) }\ninternal fun checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from, until) }\n","/*\n * Copyright 2010-2018

 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\n/**\n * Random number generator, using Marsaglia's \"xorwow\" algorithm\n *\n * Cycles after 2^192 - 2^32 repetitions.\n *\n * For more details, see Marsaglia, George (July 2003). \"Xorshift RNGs\". Journal of Statistical Software. 8 (14). doi:10.18637/jss.v008.i14\n *\n * Available at https://www.jstatsoft.org/v08/i14/paper\n *\n */\ninternal class XorWowRandom internal constructor(\n   private var x: Int,\n   private var y: Int,\n   private var z: Int,\n   private var w: Int,\n   private var v: Int,\n   private var addend: Int\n) : Random(), Serializable {\n\n   internal constructor(seed1: Int, seed2: Int) :\n   this(seed1, seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))\n\n   init {\n   require((x or y or z or w or v) != 0) { \"Initial

 state must have at least one non-zero element.\" }\n\n   // some trivial seeds can produce several values with zeroes in upper bits, so we discard first 64\n   repeat(64) { nextInt() }\n   }\n\n   override fun nextInt(): Int {\n   // Equivalent to the xorxow algorithm\n   // From Marsaglia, G. 2003. Xorshift RNGs. J. Statis. Soft. 8, 14, p. 5\n   var t = x\n   t = t xor (t ushr 2)\n   x = y\n   y = z\n   z = w\n   val v0 = v\n   w = v0\n   t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)\n   v = t\n   addend += 362437\n   return t + addend\n   }\n\n   override fun nextBits(bitCount: Int): Int =\n   nextInt().takeUpperBits(bitCount)\n\n   private companion object {\n   private const val serialVersionUID: Long = 0L\n   }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in

 the license/LICENSE.txt file.\n

*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"RangesKt\")\n\npackage kotlin.ranges\n\n/**\n * Represents a range of [Comparable] values.\n */\nprivate open class ComparableRange<T : Comparable<T>>(\n   override val start: T,\n   override val endInclusive: T\n) : ClosedRange<T> {\n\n   override fun equals(other: Any?): Boolean {\n   return other is ComparableRange<*> && (isEmpty() && other.isEmpty() ||\n   start == other.start && endInclusive == other.endInclusive)\n   }\n\n   override fun hashCode(): Int {\n   return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()\n   }\n\n   override fun toString(): String = \"$start..$endInclusive\"\n}\n\n/**\n * Creates a range from this [Comparable] value to the specified [that] value.\n *\n * This value needs to be smaller than or equal to [that] value, otherwise the returned range will be empty.\n * @sample samples.ranges.Ranges.rangeFromComparable\n

 */\npublic operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)\n\n\n/**\n * Represents a range of floating point numbers.\n * Extends [ClosedRange] interface providing

custom operation [lessThanOrEquals] for comparing values of range domain type.\n *\n * This interface is implemented by floating point ranges returned by [Float.rangeTo] and [Double.rangeTo] operators to\n * achieve IEEE-754 comparison order instead of total order of floating point numbers.\n *\n@SinceKotlin(\"1.1\")\npublic interface ClosedFloatingPointRange<T : Comparable<T>> : ClosedRange<T> {\n   override fun contains(value: T): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)\n   override fun isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)\n\n   /**\n   * Compares two values of range domain type and returns true if first is less than or equal to second.\n   */\n   fun lessThanOrEquals(a: T, b: T): Boolean\n}\n\n\n/**\n
 * A closed range of values of type `Double`.\n *\n * Numbers are compared with the ends of this range according to IEEE-754.\n */\nprivate class ClosedDoubleRange(\n   start: Double,\n   endInclusive: Double\n) : ClosedFloatingPointRange<Double> {\n   private val _start = start\n   private val _endInclusive = endInclusive\n   override val start: Double get() = _start\n   override val endInclusive: Double get() = _endInclusive\n\n   override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\n\n   override fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive\n   override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n   override fun equals(other: Any?): Boolean {\n   return other is ClosedDoubleRange && (isEmpty() && other.isEmpty() ||\n   _start == other._start && _endInclusive == other._endInclusive)\n   }\n\n   override fun hashCode(): Int {\n   return if (isEmpty()) -1 else 31 * _start.hashCode()
 + _endInclusive.hashCode()\n   }\n\n   override fun toString(): String = \"$_start..$_endInclusive\"\n}\n\n/**\n * Creates a range from this [Double] value to the specified [that] value.\n *\n * Numbers are compared with the ends of this range according to IEEE-754.\n * @sample samples.ranges.Ranges.rangeFromDouble\n *\n@SinceKotlin(\"1.1\")\npublic operator fun Double.rangeTo(that: Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)\n\n\n/**\n * A closed range of values of type `Float`.\n *\n * Numbers are compared with the ends of this range according to IEEE-754.\n */\nprivate class ClosedFloatRange(\n   start: Float,\n   endInclusive: Float\n) : ClosedFloatingPointRange<Float> {\n   private val _start = start\n   private val _endInclusive = endInclusive\n   override val start: Float get() = _start\n   override val endInclusive: Float get() = _endInclusive\n\n   override fun lessThanOrEquals(a: Float, b: Float): Boolean = a <= b\n\n   override
 fun contains(value: Float): Boolean = value >= _start && value <= _endInclusive\n   override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n   override fun equals(other: Any?): Boolean {\n   return other is ClosedFloatRange && (isEmpty() && other.isEmpty() ||\n   _start == other._start && _endInclusive == other._endInclusive)\n   }\n\n   override fun hashCode(): Int {\n   return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n   }\n\n   override fun toString(): String = \"$_start..$_endInclusive\"\n}\n\n/**\n * Creates a range from this [Float] value to the specified [that] value.\n *\n * Numbers are compared with the ends of this range according to IEEE-754.\n * @sample samples.ranges.Ranges.rangeFromFloat\n */\n@SinceKotlin(\"1.1\")\npublic operator fun Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> = ClosedFloatRange(this, that)\n\n\n/**\n * Returns `true` if this iterable range contains the specified [element].\n
 *\n * Always returns `false` if the [element] is `null`.\n
 /\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, R> R.contains(element: T?): Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\n   element != null && contains(element)\n\n\ninternal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\n   if (!isPositive) throw IllegalArgumentException(\"Step must be positive, was: $step.\")\n}\n","/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
 */\n\n@file:kotlin.jvm.JvmName(\"KClasses\")\n@file:Suppress(\"UNCHECKED_CAST\")\n\npackage kotlin.reflect\n\nimport kotlin.internal.LowPriorityInOverloadResolution\n\n\n/**\n * Casts the given [value] to the class represented by this [KClass] object.\n * Throws an exception if the value is `null` or if it is not an instance of this

class.\n *\n * This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.\n *\n * @see [KClass.isInstance]\n * @see [KClass.safeCast]\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti on\nfun <T : Any> KClass<T>.cast(value: Any?): T {\n   if (!isInstance(value)) throw ClassCastException(\"Value cannot be cast to $qualifiedOrSimpleName\")\n   return value as T\n}\n\n// TODO: replace with qualifiedName when it is fully supported in K/JS\ninternal expect val KClass<*>.qualifiedOrSimpleName: String?\n\n/**\n * Casts the given [value] to the class represented by this [KClass] object.\n * Returns `null` if the value is `null` or if it is not an instance of this class.\n *\n * This is an experimental function that behaves as a similar function from kotlin.reflect.full on JVM.\n *\n * @see [KClass.isInstance]\n * @see [KClass.cast]\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti on\nfun

<T : Any> KClass<T>.safeCast(value: Any?): T? {\n   return if (isInstance(value)) value as T else null\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmStatic\n\n\n/**\n * Represents a type projection. Type projection is usually the argument to another type in a type usage.\n * For example, in the type `Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`.\n *\n * Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.\n *\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\n * for more information.\n */\n@SinceKotlin(\"1.1\")\npublic

data class KTypeProjection constructor(\n   /**\n   * The use-site variance specified in the projection, or `null` if this is a star projection.\n   */\n   public val variance: KVariance?,\n   /**\n   * The type specified in the projection, or `null` if this is a star projection.\n   */\n   public val type: KType?) {\n\n   init {\n   require((variance == null) == (type == null)) {\n   if (variance == null)\n   \"Star projection must have no type specified.\"\n   else\n   \"The projection variance $variance requires type to be specified.\"\n   }\n   }\n\n   override fun toString(): String = when (variance) {\n   null -> \"*\"\n   KVariance.INVARIANT -> type.toString()\n   KVariance.IN -> \"in $type\"\n   KVariance.OUT -> \"out $type\"\n   }\n\n   public companion object {\n   // provided for compiler access\n   @JvmField\n   @PublishedApi\n   internal val

star: KTypeProjection = KTypeProjection(null, null)\n\n   /**\n   * Star projection, denoted by the `*` character.\n   * For example, in the type `KClass<*>`, `*` is the star projection.\n   * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n   * for more information.\n   */\n   public val STAR: KTypeProjection get() = star\n\n   /**\n   * Creates an invariant projection of a given type. Invariant projection is just the type itself,\n   * without any use-site variance modifiers applied to it.\n   * For example, in the type `Set<String>`, `String` is an invariant projection of the type represented by the class `String`.\n   */\n   @JvmStatic\n   public fun invariant(type: KType): KTypeProjection =\n   KTypeProjection(KVariance.INVARIANT, type)\n\n   /**\n   * Creates a contravariant projection of a given type, denoted by the `in`

modifier applied to a type.\n   * For example, in the type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.\n   */\n   @JvmStatic\n   public fun contravariant(type: KType): KTypeProjection =\n   KTypeProjection(KVariance.IN, type)\n\n   /**\n   * Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type.\n   * For example, in the type `Array<out Number>`, `out Number` is a covariant projection of the type of class `Number`.\n   */\n   @JvmStatic\n   public fun covariant(type: KType): KTypeProjection =\n   KTypeProjection(KVariance.OUT, type)\n   }\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Represents variance applied

to a type parameter on the declaration site (*declaration-site variance*),\n * or to a type in a projection (*use-site variance*).\n *\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\n * for more information.\n *\n * @see [KTypeParameter.variance]\n * @see [KTypeProjection]\n */\n@SinceKotlin(\"1.1\")\nenum class KVariance {\n   /**\n   * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\n   */\n   INVARIANT,\n\n   /**\n   * The affected type parameter or type is *contravariant*. Denoted by the `in` modifier in the source code.\n   */\n   IN,\n\n   /**\n   * The affected type parameter or type is *covariant*. Denoted by the `out` modifier in the source code.\n   */\n   OUT,\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Returns a runtime representation of the given reified type [T] as an instance of [KType].\n *\n * Note that on JVM, the created type has no annotations ([KType.annotations] returns an empty list)\n * even if the type in the source code is annotated. Support for type annotations might be added in a future version.\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <reified T> typeOf(): KType =\n   throw UnsupportedOperationException(\"This function is implemented as an intrinsic on all supported platforms.\")\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n/**\n * An object to which char sequences and values can be appended.\n */\nexpect interface Appendable {\n   /**\n   * Appends the specified character [value] to this Appendable and returns this instance.\n   *\n   * @param value the character to append.\n   */\n   fun append(value: Char): Appendable\n\n   /**\n   * Appends the specified character sequence [value] to this Appendable and returns this instance.\n   *\n   * @param value the character sequence to append. If [value] is `null`, then the four characters `\"null\"` are appended to this Appendable.\n   */\n   fun append(value: CharSequence?): Appendable\n\n   /**\n   * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.\n   *\n   * @param value the character sequence from which a subsequence is appended. If [value] is `null`,\n   * then characters are appended as if [value] contained the four characters `\"null\"`.\n   * @param startIndex the beginning (inclusive) of the subsequence to append.\n   * @param endIndex the end (exclusive) of the subsequence to append.\n   *\n   * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n   */\n   fun append(value: CharSequence?, startIndex: Int, endIndex: Int): Appendable\n}\n\n/**\n * Appends a subsequence of the specified character sequence [value] to this Appendable and returns this instance.\n *\n * @param value the character sequence from which a subsequence is appended.\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] character sequence indices or when `startIndex > endIndex`.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T : Appendable> T.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): T {\n   @Suppress(\"UNCHECKED_CAST\")\n   return append(value, startIndex, endIndex) as T\n}\n\n/**\n * Appends all arguments to the given [Appendable].\n */\npublic fun <T : Appendable> T.append(vararg value: CharSequence?): T {\n   for (item in value)\n   append(item)\n   return this\n}\n\n/** Appends a line feed character (`\\n`) to this Appendable. */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(): Appendable = append('\\n')\n\n/** Appends value to the given Appendable and a line feed character (`\\n`) after it. */\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()\n\n/** Appends value to the given Appendable and a line feed character (`\\n`) after it.

/\n@SinceKotlin(\"1.4\")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(value: Char): Appendable = append(value).appendLine()\n\n\ninternal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence)?) {\n   when {\n   transform != null -> append(transform(element))\n   element is CharSequence? -> append(element)\n   element is Char -> append(element)\n   else -> append(element.toString())\n   }\n}\n","/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n

*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n/**\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes\n * the first and the last lines if they are blank (notice difference blank vs empty).\n *\n * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\n *\n * Doesn't preserve the original line endings.\n *\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n *\n * @sample samples.text.Strings.trimMargin\n * @see trimIndent\n * @see kotlin.text.isWhitespace\n */\npublic fun String.trimMargin(marginPrefix: String = \"|\"): String =\n   replaceIndentByMargin(\"\", marginPrefix)\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].\n *\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n */\npublic fun String.replaceIndentByMargin(newIndent: String = \"\", marginPrefix: String = \"|\"): String {\n   require(marginPrefix.isNotBlank()) { \"marginPrefix must be non-blank string.\" }\n   val lines = lines()\n\n   return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line ->\n   val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\n\n   when {\n   firstNonWhitespaceIndex == -1 -> null\n   line.startsWith(marginPrefix, firstNonWhitespaceIndex) -> line.substring(firstNonWhitespaceIndex + marginPrefix.length)\n   else -> null\n   }\n   })\n}\n\n/**\n * Detects a common minimal indent of all the input lines, removes it from every line and also removes the first and the last\n * lines if they are blank (notice difference blank vs empty).\n *\n * Note that blank lines do not affect the detected indent level.\n *\n * In case if there are non-blank lines with no leading whitespace characters (no indent at all) then the\n * common indent is 0, and therefore this function doesn't change the indentation.\n *\n * Doesn't preserve the original line endings.\n *\n * @sample samples.text.Strings.trimIndent\n * @see trimMargin\n * @see kotlin.text.isBlank\n */\npublic fun String.trimIndent(): String = replaceIndent(\"\")\n\n/**\n * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].\n */\npublic fun String.replaceIndent(newIndent: String = \"\"): String {\n   val lines = lines()\n\n   val minCommonIndent = lines\n   .filter(String::isNotBlank)\n   .map(String::indentWidth)\n   .minOrNull() ?: 0\n\n   return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })\n}\n\n/**\n * Prepends [indent] to every line of the original string.\n *\n * Doesn't preserve the original line endings.\n */\npublic fun String.prependIndent(indent: String = \"   \"): String =\n   lineSequence()\n   .map {\n   when {\n   it.isBlank() -> {\n   when {\n   it.length < indent.length -> indent\n   else -> it\n   }\n   }\n   else -> indent + it\n   }\n   }\n   .joinToString(\"\\n\")\n\nprivate fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }\n\nprivate fun getIndentFunction(indent: String) = when {\n   indent.isEmpty() -> { line: String -> line }\n   else -> { line: String -> indent + line }\n}\n\nprivate inline fun List<String>.reindent(\n   resultSizeEstimate: Int,\n   indentAddFunction: (String) -> String,\n   indentCutFunction: (String) -> String?\n): String {\n   val lastIndex = lastIndex\n   return mapIndexedNotNull { index, value ->\n   if ((index == 0 || index == lastIndex) && value.isBlank())\n   null\n   else\n   indentCutFunction(value)?.let(indentAddFunction) ?: value\n   }\n   .joinTo(StringBuilder(resultSizeEstimate), \"\\n\")\n   .toString()\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt

file.\n */\n\npackage kotlin.text\n\n/**\n * Defines names for Unicode symbols used in proper Typography.\n */\npublic object Typography {\n   /** The character " \u2013 quotation mark */\n   public const val quote: Char = '\\u0022'\n   /** The character $ \u2013 dollar sign */\n   public const val dollar: Char = '\\u0024'\n   /** The character & \u2013 ampersand */\n   public const val amp: Char = '\\u0026'\n   /** The character < \u2013 less-than sign */\n   public const val less: Char = '\\u003C'\n   /** The character > \u2013 greater-than sign */\n   public const val greater: Char = '\\u003E'\n   /** The non-breaking space character */\n   public const val nbsp: Char = '\\u00A0'\n   /** The character × */\n   public const val times: Char = '\\u00D7'\n   /** The character ¢ */\n   public const val cent: Char = '\\u00A2'\n   /** The character £ */\n   public const val pound: Char = '\\u00A3'\n   /** The character §

*/\n   public const val section: Char = '\\u00A7'\n   /** The character © */\n   public const val copyright: Char = '\\u00A9'\n   /** The character « */\n   @SinceKotlin(\"1.6\")\n   public const val leftGuillemet: Char = '\\u00AB'\n   /** The character » */\n   @SinceKotlin(\"1.6\")\n   public const val rightGuillemet: Char = '\\u00BB'\n   /** The character ® */\n   public const val registered: Char = '\\u00AE'\n   /** The character ° */\n   public const val degree: Char = '\\u00B0'\n   /** The character ± */\n   public const val plusMinus: Char = '\\u00B1'\n   /** The character ¶ */\n   public const val paragraph: Char = '\\u00B6'\n   /** The character · */\n   public const val middleDot: Char = '\\u00B7'\n   /** The character ½ */\n   public const val half: Char = '\\u00BD'\n   /** The character – */\n   public const val ndash: Char = '\\u2013'\n   /** The character — */\n   public const val mdash:

Char = '\\u2014'\n   /** The character ‘ */\n   public const val leftSingleQuote: Char = '\\u2018'\n   /** The character ’ */\n   public const val rightSingleQuote: Char = '\\u2019'\n   /** The character ‚ */\n   public const val lowSingleQuote: Char = '\\u201A'\n   /** The character “ */\n   public const val leftDoubleQuote: Char = '\\u201C'\n   /** The character ” */\n   public const val rightDoubleQuote: Char = '\\u201D'\n   /** The character „ */\n   public const val lowDoubleQuote: Char = '\\u201E'\n   /** The character † */\n   public const val dagger: Char = '\\u2020'\n   /** The character ‡ */\n   public const val doubleDagger: Char = '\\u2021'\n   /** The character • */\n   public const val bullet: Char = '\\u2022'\n   /** The character … */\n   public const val ellipsis: Char = '\\u2026'\n   /** The character ′ */\n   public const val prime: Char = '\\u2032'\n   /** The character

″ */\n   public const val doublePrime: Char = '\\u2033'\n   /** The character € */\n   public const val euro: Char = '\\u20AC'\n   /** The character ™ */\n   public const val tm: Char = '\\u2122'\n   /** The character ≈ */\n   public const val almostEqual: Char = '\\u2248'\n   /** The character ≠ */\n   public const val notEqual: Char = '\\u2260'\n   /** The character ≤ */\n   public const val lessOrEqual: Char = '\\u2264'\n   /** The character ≥ */\n   public const val greaterOrEqual: Char = '\\u2265'\n\n   /** The character « */\n   @Deprecated(\"This constant has a typo in the name. Use leftGuillemet instead.\", ReplaceWith(\"Typography.leftGuillemet\"))\n   @DeprecatedSinceKotlin(\"1.6\")\n   public const val leftGuillemete: Char = '\\u00AB'\n\n   /** The character » */\n   @Deprecated(\"This constant has a typo in the name. Use rightGuillemet instead.\", ReplaceWith(\"Typography.rightGuillemet\"))\n

    @DeprecatedSinceKotlin(\"1.6\")\n   public const val rightGuillemete: Char = '\\u00BB'\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Represents a collection of captured groups in a single match of a regular expression.\n *\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n *\n * An element of the collection at the particular index can be `null`,\n * if the corresponding group in the regular expression is optional and\n * there was no match captured by that group.\n */\npublic interface MatchGroupCollection : Collection<MatchGroup?> {\n\n   /** Returns a group with the specified [index].\n   *\n   * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.\n   *\n   * Groups are indexed from 1 to the count of groups in the regular expression. A group with the index 0\n   * corresponds to the entire match.\n   */\n   public operator fun get(index: Int): MatchGroup?\n}\n\n/**\n * Extends

[MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.\n *\n@SinceKotlin(\"1.1\")\npublic interface MatchNamedGroupCollection : MatchGroupCollection {\n   /**\n   * Returns a named group with the specified [name].\n   * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.\n   * @throws IllegalArgumentException if there is no group with the specified [name] defined in the regex pattern.\n   * @throws UnsupportedOperationException if getting named groups isn't supported on the current platform.\n   */\n   public operator fun get(name: String): MatchGroup?\n}\n\n/**\n * Represents the results from a single regular expression match.\n */\npublic interface MatchResult {\n   /** The range of indices in the original string where match was captured. */\n   public val range: IntRange\n   /** The substring from the input string captured by this match. */\n   public val value: String\n   /**\n   * A collection of groups matched by the regular expression.\n   *\n   * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n   * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n   */\n   public val groups: MatchGroupCollection\n   /**\n   * A list of matched indexed group values.\n   *\n   * This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n   * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n   *\n   * If the group in the regular expression is optional and there were no match captured by that group,\n   * corresponding item in [groupValues] is an empty string.\n   *\n   * @sample samples.text.Regexps.matchDestructuringToGroupValues\n   */\n   public val groupValues: List<String>\n\n   /**\n   * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment of group values.\n   *\n   * component1 corresponds to the value of the first group, component2 \u2014 of the second, and so on.\n   *\n   * @sample samples.text.Regexps.matchDestructuringToGroupValues\n   */\n   public val destructured: Destructured get() = Destructured(this)\n\n   /** Returns a new [MatchResult] with the results for the next match, starting at the position\n   * at which the last match ended (at the character after the last matched character).\n   */\n   public fun next(): MatchResult?\n\n   /**\n   * Provides components for destructuring assignment of group values.\n   *\n   * [component1] corresponds to the value of the first group, [component2] \u2014 of the second, and so on.\n   *\n   * If the group in the regular expression is optional and there were no match captured by that group,\n   * corresponding component value is an empty string.\n   *\n   * @sample samples.text.Regexps.matchDestructuringToGroupValues\n   */\n   public class Destructured internal constructor(public val match: MatchResult) {\n   @kotlin.internal.InlineOnly\n   public operator inline fun component1(): String = match.groupValues[1]\n   @kotlin.internal.InlineOnly\n   public operator inline fun component2(): String = match.groupValues[2]\n   @kotlin.internal.InlineOnly\n   public operator inline fun component3(): String = match.groupValues[3]\n   @kotlin.internal.InlineOnly\n   public operator inline fun component4(): String = match.groupValues[4]\n   @kotlin.internal.InlineOnly\n   public operator inline fun component5(): String = match.groupValues[5]\n   @kotlin.internal.InlineOnly\n   public operator inline fun component6(): String = match.groupValues[6]\n   @kotlin.internal.InlineOnly\n   public operator inline fun component7(): String = match.groupValues[7]\n   @kotlin.internal.InlineOnly\n   public operator inline fun component8(): String = match.groupValues[8]\n   @kotlin.internal.InlineOnly\n   public operator inline fun component9(): String = match.groupValues[9]\n   @kotlin.internal.InlineOnly\n   public operator inline fun component10(): String = match.groupValues[10]\n\n   /**\n   * Returns destructured group values as a list of strings.\n   * First value in the returned list corresponds to the value of the first group, and so on.\n   *\n   * @sample samples.text.Regexps.matchDestructuringToGroupValues\n   */\n   public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)\n   }\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n@file:kotlin.jvm.JvmMultifileClass()\n@file:kotlin.jvm.JvmName(\"DurationUnitKt\")\n\npackage kotlin.time\n\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed.\n *\n * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24

[HOURS].\n *\/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalTime::class)\npublic expect enum class DurationUnit {\n   /**\n   * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n   *\/\n   NANOSECONDS,\n   /**\n   * Time unit representing one microsecond, which is 1/1000 of a millisecond.\n   *\/\n   MICROSECONDS,\n   /**\n   * Time unit representing one millisecond, which is 1/1000 of a second.\n   *\/\n   MILLISECONDS,\n   /**\n   * Time unit representing one second.\n   *\/\n   SECONDS,\n   /**\n   * Time unit representing one minute.\n   *\/\n   MINUTES,\n   /**\n   * Time unit representing one hour.\n   *\/\n   HOURS,\n   /**\n   * Time unit representing one day, which is always equal to 24 hours.\n   *\/\n   DAYS;\n}\n\n/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. *\/\n@SinceKotlin(\"1.3\")\ninternal expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double\n\n// overflown result is unspecified\n@SinceKotlin(\"1.5\")\ninternal expect fun convertDurationUnitOverflow(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long\n\n// overflown result is coerced in the Long range boundaries\n@SinceKotlin(\"1.5\")\ninternal expect fun convertDurationUnit(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long\n\n\n@SinceKotlin(\"1.3\")\n@Suppress(\"REDUNDANT_ELSE_IN_WHEN\")\ninternal fun DurationUnit.shortName(): String = when (this) {\n   DurationUnit.NANOSECONDS -> \"ns\"\n   DurationUnit.MICROSECONDS -> \"us\"\n   DurationUnit.MILLISECONDS -> \"ms\"\n   DurationUnit.SECONDS -> \"s\"\n   DurationUnit.MINUTES -> \"m\"\n   DurationUnit.HOURS -> \"h\"\n   DurationUnit.DAYS -> \"d\"\n   else -> error(\"Unknown unit: $this\")\n}\n\n@SinceKotlin(\"1.5\")\ninternal fun durationUnitByShortName(shortName: String): DurationUnit = when (shortName) {\n   \"ns\" -> DurationUnit.NANOSECONDS\n   \"us\" -> DurationUnit.MICROSECONDS\n   \"ms\" -> DurationUnit.MILLISECONDS\n   \"s\" -> DurationUnit.SECONDS\n   \"m\" -> DurationUnit.MINUTES\n   \"h\" -> DurationUnit.HOURS\n   \"d\" -> DurationUnit.DAYS\n   else -> throw IllegalArgumentException(\"Unknown duration unit short name: $shortName\")\n}\n\n@SinceKotlin(\"1.5\")\ninternal fun durationUnitByIsoChar(isoChar: Char, isTimeComponent: Boolean): DurationUnit =\n   when {\n   !isTimeComponent -> {\n   when (isoChar) {\n   'D' -> DurationUnit.DAYS\n   else -> throw IllegalArgumentException(\"Invalid or unsupported duration ISO non-time unit: $isoChar\")\n   }\n   }\n   else -> {\n   when (isoChar) {\n   'H' -> DurationUnit.HOURS\n   'M' -> DurationUnit.MINUTES\n   'S' -> DurationUnit.SECONDS\n   else -> throw IllegalArgumentException(\"Invalid duration ISO time unit: $isoChar\")\n   }\n   }\n   }","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\/\n\npackage kotlin.time\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * This annotation marks the experimental preview of the standard library API for measuring time and working with durations.\n *\n * > Note that this API is in a preview state and has a very high chance of being changed in the future.\n * Do not use it if you develop a library since your library will become binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a declaration annotated with `@ExperimentalTime` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTime::class)`,\n * or by using the compiler argument `-opt-in=kotlin.time.ExperimentalTime`.\n *\/\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(\n   CLASS,\n   ANNOTATION_CLASS,\n   PROPERTY,\n   FIELD,\n   LOCAL_VARIABLE,\n   VALUE_PARAMETER,\n   CONSTRUCTOR,\n   FUNCTION,\n   PROPERTY_GETTER,\n   PROPERTY_SETTER,\n   TYPEALIAS)\n@SinceKotlin(\"1.3\")\npublic annotation class ExperimentalTime\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\/\n\npackage kotlin.time\n\n/**\n * A source of time for measuring time intervals.\n *\n * The only operation provided by the

time source is [markNow]. It returns a [TimeMark], which can be used to query the elapsed time later.\n *\n * @see [measureTime]\n * @see [measureTimedValue]\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic interface TimeSource {\n /**\n * Marks a point in time on this time source.\n *\n * The returned [TimeMark] instance encapsulates the captured time point and allows querying\n * the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.\n */\n public fun markNow(): TimeMark\n\n /**\n * The most precise time source available in the platform.\n *\n * This time source returns its readings from a source of monotonic time when it is available in a target platform,\n * and resorts to a non-monotonic time source otherwise.\n */\n public object Monotonic : TimeSource by MonotonicTimeSource {\n override fun toString(): String = MonotonicTimeSource.toString()\n }\n\n public companion object {\n }\n}\n\n/**\n * Represents a time point notched on a particular [TimeSource]. Remains bound to the time source it was taken from\n * and allows querying for the duration of time elapsed from that point (see the function [elapsedNow]).\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic abstract class TimeMark {\n /**\n * Returns the amount of time passed from this mark measured with the time source from which this mark was taken.\n *\n * Note that the value returned by this function can change on subsequent invocations.\n */\n public abstract fun elapsedNow(): Duration\n\n /**\n * Returns a time mark on the same time source that is ahead of this time mark by the specified [duration].\n *\n * The returned time mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.\n */\n public open operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)\n\n /**\n * Returns a time mark on the same time source that is behind this time mark by the specified [duration].\n *\n * The returned time mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.\n */\n public open operator fun minus(duration: Duration): TimeMark = plus(-duration)\n\n /**\n * Returns true if this time mark has passed according to the time source from which this mark was taken.\n *\n * Note that the value returned by this function can change on subsequent invocations.\n * If the time source is monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point of the time source.\n */\n public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()\n\n /**\n * Returns false if this time mark has not passed according to the time source from which this mark was taken.\n *\n * Note that the value returned by this function can change on subsequent invocations.\n * If the time source is monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point of the time source.\n */\n public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()\n}\n\n\n@ExperimentalTime\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Deprecated(\n \"Subtracting one TimeMark from another is not a well defined operation because these time marks could have been obtained from the different time sources.\",\n level = DeprecationLevel.ERROR)\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline operator fun TimeMark.minus(other: TimeMark): Duration = throw Error(\"Operation is disallowed.\")\n\n@ExperimentalTime\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Deprecated(\n \"Comparing one TimeMark to another is not a well defined operation because these time marks could have been obtained from the different time sources.\",\n level = DeprecationLevel.ERROR)\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline operator fun TimeMark.compareTo(other: TimeMark): Int = throw Error(\"Operation is disallowed.\")\n\n\n@ExperimentalTime\nprivate class AdjustedTimeMark(val mark: TimeMark, val adjustment: Duration) : TimeMark() {\n override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\n\n override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal expect object MonotonicTimeSource : TimeSource\n\n/**\n * An abstract class used to implement time sources that return their readings as [Long] values in the specified [unit].\n *\n * @property unit The unit in which this time

source's readings are expressed.\n *\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic abstract class AbstractLongTimeSource(protected val unit: DurationUnit) : TimeSource {\n   /**\n   * This protected method should be overridden to return the current reading of the time source expressed as a [Long] number\n   * in the unit specified by the [unit] property.\n   */\n   protected abstract fun read(): Long\n\n   private class LongTimeMark(private val startedAt: Long, private val timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {\n   override fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n   override fun plus(duration: Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)\n   }\n\n   override fun markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * An abstract class used to implement time sources that return their readings as [Double] values in the specified [unit].\n *\n * @property unit The unit in which this time source's readings are expressed.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic abstract class AbstractDoubleTimeSource(protected val unit: DurationUnit) : TimeSource {\n   /**\n   * This protected method should be overridden to return the current reading of the time source expressed as a [Double] number\n   * in the unit specified by the [unit] property.\n   */\n   protected abstract fun read(): Double\n\n   private class DoubleTimeMark(private val startedAt: Double, private val timeSource: AbstractDoubleTimeSource, private val offset: Duration) : TimeMark() {\n   override fun elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset\n   override fun plus(duration: Duration): TimeMark = DoubleTimeMark(startedAt, timeSource, offset + duration)\n   }\n\n   override fun markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)\n}\n\n/**\n * A time source that has programmatically updatable readings. It is useful as a predictable source of time in tests.\n *\n * The current reading value can be advanced by the specified duration amount with the operator [plusAssign]:\n *\n * ```\n * val timeSource = TestTimeSource()\n * timeSource += 10.seconds\n * ```\n *\n * Implementation note: the current reading value is stored as a [Long] number of nanoseconds,\n * thus it's capable to represent a time range of approximately \u00b1292 years.\n * Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic class TestTimeSource : AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {\n   private var reading: Long = 0L\n\n   override fun read(): Long = reading\n\n   /**\n   * Advances the current reading value of this time source by the specified [duration].\n   *\n   * [duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds.\n   * For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't advance because\n   * the duration value is rounded to zero nanoseconds.\n   *\n   * @throws IllegalStateException when the reading value overflows as the result of this operation.\n   */\n   public operator fun plusAssign(duration: Duration) {\n   val longDelta = duration.toLong(unit)\n   reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {\n   // when delta fits in long, add it as long\n   val newReading = reading + longDelta\n   if (reading xor longDelta >= 0 && reading xor newReading < 0) overflow(duration)\n   newReading\n   } else {\n   val delta = duration.toDouble(unit)\n   // when delta is greater than long, add it as double\n   val newReading = reading + delta\n   if (newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)\n   newReading.toLong()\n   }\n   }\n\n   private fun overflow(duration: Duration) {\n   throw IllegalStateException(\"TestTimeSource will overflow if its reading ${reading}ns is advanced by $duration.\")\n   }\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.contracts.*\n\n/**\n * Executes the given function [block] and returns the duration of elapsed time interval.\n *\n * The elapsed time is measured with [TimeSource.Monotonic].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun measureTime(block: () -> Unit): Duration {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n   return TimeSource.Monotonic.measureTime(block)\n}\n\n/**\n * Executes the given function [block] and returns the duration of elapsed time interval.\n *\n * The elapsed time is measured with the specified `this` [TimeSource] instance.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun TimeSource.measureTime(block: () -> Unit): Duration {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n\n   val mark = markNow()\n   block()\n   return mark.elapsedNow()\n}\n\n\n/**\n * Data class representing a result of executing an action, along with the duration of elapsed time interval.\n *\n * @property value the result of the action.\n * @property duration the time elapsed to execute the action.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic data class TimedValue<T>(val value: T, val duration: Duration)\n\n/**\n * Executes the given function [block] and returns an instance of [TimedValue] class, containing both\n * the result of the function execution and the duration of elapsed time interval.\n *\n * The elapsed time is measured with [TimeSource.Monotonic].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun <T> measureTimedValue(block: () -> T): TimedValue<T> {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n\n   return TimeSource.Monotonic.measureTimedValue(block)\n}\n\n/**\n * Executes the given [block] and returns an instance of [TimedValue] class, containing both\n * the result of function execution and the duration of elapsed time interval.\n *\n * The elapsed time is measured with the specified `this` [TimeSource] instance.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun <T> TimeSource.measureTimedValue(block: () -> T): TimedValue<T> {\n   contract {\n   callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n   }\n\n   val mark = markNow()\n   val result = block()\n   return TimedValue(result, mark.elapsedNow())\n}\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.coroutines.*\nimport kotlin.coroutines.intrinsics.*\nimport kotlin.native.concurrent.SharedImmutable\n\n/**\n * Defines deep recursive function that keeps its stack on the heap,\n * which allows very deep recursive computations that do not use the actual call stack.\n * To initiate a call to this deep recursive function use its [invoke] function.\n * As a rule of thumb, it should be used if recursion goes deeper than a thousand calls.\n *\n * The [DeepRecursiveFunction] takes one parameter of type [T] and returns a result of type [R].\n * The [block] of code defines the body of a recursive function. In this block\n * [callRecursive][DeepRecursiveScope.callRecursive] function can be used to make a recursive call\n * to the declared function. Other instances of [DeepRecursiveFunction] can be called\n * in this scope with `callRecursive` extension, too.\n *\n * For example, take a look at the following recursive tree class and a deeply\n * recursive instance of this tree with 100K nodes:\n *\n * ```\n * class Tree(val left: Tree? = null, val right: Tree? = null)\n * val deepTree = generateSequence(Tree()) { Tree(it) }.take(100_000).last()\n * ```\n *\n * A regular recursive function can be defined to compute a depth of a tree:\n *\n * ```\n * fun depth(t: Tree?): Int =\n *   if (t == null) 0 else max(depth(t.left), depth(t.right)) + 1\n * println(depth(deepTree)) // StackOverflowError\n * ```\n *\n * If this `depth` function is called for a `deepTree` it produces [StackOverflowError] because of deep recursion.\n * However, the `depth` function can be rewritten using `DeepRecursiveFunction` in the following way, and then\n * it successfully computes [`depth(deepTree)`][DeepRecursiveFunction.invoke] expression:\n *\n * ```\n * val depth = DeepRecursiveFunction<Tree?, Int> { t ->\n *   if (t == null) 0 else max(callRecursive(t.left), callRecursive(t.right)) + 1\n * }\n * println(depth(deepTree)) // Ok\n * ```\n *\n * Deep recursive functions can also mutually call each other using a heap for the stack via\n * [callRecursive][DeepRecursiveScope.callRecursive] extension. For example, the\n * following pair of mutually recursive functions computes the number of tree nodes at even depth in the tree.\n *\n * ```\n * val mutualRecursion = object {\n *   val even: DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->\n *   if (t == null) 0 else odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1\n *   }\n *   val odd: DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->\n *   if (t == null) 0 else even.callRecursive(t.left)\n + even.callRecursive(t.right)\n *   }\n * }\n * ```\n *\n * @param [T] the function parameter type.\n * @param [R] the function result type.\n * @param block the function body.\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalStdlibApi\npublic class DeepRecursiveFunction<T, R>(\n   internal val

block: suspend DeepRecursiveScope<T, R>.(T) -> R\n)\n\n/**\n * Initiates a call to this deep recursive function, forming a root of the call tree.\n *\n * This operator should not be used from inside of [DeepRecursiveScope] as it uses the call stack slot for\n * initial recursive invocation. From inside of [DeepRecursiveScope] use\n * [callRecursive][DeepRecursiveScope.callRecursive].\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalStdlibApi\npublic operator fun <T, R> DeepRecursiveFunction<T, R>.invoke(value: T): R =\n   DeepRecursiveScopeImpl<T, R>(block, value).runCallLoop()\n\n/**\n * A scope class for [DeepRecursiveFunction] function declaration that defines [callRecursive] methods to\n * recursively call this function or another [DeepRecursiveFunction] putting the call activation frame on the heap.\n *\n * @param [T] function parameter type.\n * @param [R] function result type.\n */\n@RestrictsSuspension\n@SinceKotlin(\"1.4\")\n@ExperimentalStdlibApi\npublic sealed class DeepRecursiveScope<T, R> {\n   /**\n   * Makes recursive call to this [DeepRecursiveFunction] function putting the call activation frame on the heap,\n   * as opposed to the actual call stack that is used by a regular recursive call.\n   */\n   public abstract suspend fun callRecursive(value: T): R\n\n   /**\n   * Makes call to the specified [DeepRecursiveFunction] function putting the call activation frame on the heap,\n   * as opposed to the actual call stack that is used by a regular call.\n   */\n   public abstract suspend fun <U, S> DeepRecursiveFunction<U, S>.callRecursive(value: U): S\n\n   @Deprecated(\n   level = DeprecationLevel.ERROR,\n   message =\n   \"'invoke' should not be called from DeepRecursiveScope. \" +\n   \"Use 'callRecursive' to do recursion in the heap instead of the call stack.\",\n   replaceWith = ReplaceWith(\"this.callRecursive(value)\")\n   )\n   @Suppress(\"UNUSED_PARAMETER\")\n   public operator fun DeepRecursiveFunction<*, *>.invoke(value: Any?): Nothing =\n   throw UnsupportedOperationException(\"Should not be called from DeepRecursiveScope\")\n}\n\n// ================== Implementation ==================\n\n@ExperimentalStdlibApi\nprivate typealias DeepRecursiveFunctionBlock = suspend DeepRecursiveScope<*, *>.(Any?) -> Any?\n\n@SharedImmutable\nprivate val UNDEFINED_RESULT = Result.success(COROUTINE_SUSPENDED)\n\n@Suppress(\"UNCHECKED_CAST\")\n@ExperimentalStdlibApi\nprivate class DeepRecursiveScopeImpl<T, R>(\n   block: suspend DeepRecursiveScope<T, R>.(T) -> R,\n   value: T\n) : DeepRecursiveScope<T, R>(), Continuation<R> {\n   // Active function block\n   private var function: DeepRecursiveFunctionBlock = block as DeepRecursiveFunctionBlock\n\n   // Value to call function with\n   private var value: Any? = value\n\n   // Continuation of the current call\n   private var cont: Continuation<Any?>? = this as Continuation<Any?>\n\n   // Completion result (completion of the whole call stack)\n   private var result: Result<Any?> = UNDEFINED_RESULT\n\n   override val context: CoroutineContext\n   get() = EmptyCoroutineContext\n\n   override fun resumeWith(result: Result<R>) {\n   this.cont = null\n   this.result = result\n   }\n\n   override suspend fun callRecursive(value: T): R = suspendCoroutineUninterceptedOrReturn { cont ->\n   // calling the same function that is currently active\n   this.cont = cont as Continuation<Any?>\n   this.value = value\n   COROUTINE_SUSPENDED\n   }\n\n   override suspend fun <U, S> DeepRecursiveFunction<U, S>.callRecursive(value: U): S = suspendCoroutineUninterceptedOrReturn { cont ->\n   // calling another recursive function\n   val function = block as DeepRecursiveFunctionBlock\n   with(this@DeepRecursiveScopeImpl) {\n   val currentFunction = this.function\n   if (function !== currentFunction) {\n   // calling a different function -- create a trampoline to restore function ref\n   this.function = function\n   this.cont = crossFunctionCompletion(currentFunction, cont as Continuation<Any?>)\n   } else {\n   // calling the same function -- direct\n   this.cont = cont as Continuation<Any?>\n   }\n   this.value = value\n   }\n   COROUTINE_SUSPENDED\n   }\n\n   private fun crossFunctionCompletion(\n   currentFunction: DeepRecursiveFunctionBlock,\n   cont: Continuation<Any?>\n   ): Continuation<Any?> = Continuation(EmptyCoroutineContext) {\n   this.function = currentFunction\n   // When going back from a trampoline we cannot just call\n   cont.resume (stack usage!)\n   // We delegate the cont.resumeWith(it) call to runCallLoop\n   this.cont = cont\n   this.result = it\n   }\n\n   @Suppress(\"UNCHECKED_CAST\")\n   fun runCallLoop(): R {\n   while

(true) {\n   // Note: cont is set to null in DeepRecursiveScopeImpl.resumeWith when the whole computation completes\n   val result = this.result\n   val cont = this.cont\n   ?: return (result as Result<R>).getOrThrow() // done -- final result\n   // The order of comparison is important here for that case of rogue class with broken equals\n   if (UNDEFINED_RESULT == result) {\n   // call \"function\" with \"value\" using \"cont\" as completion\n   val r = try {\n   // This is block.startCoroutine(this, value, cont)\n   function.startCoroutineUninterceptedOrReturn(this, value, cont)\n   } catch (e: Throwable) {\n   cont.resumeWithException(e)\n   continue\n   }\n   // If the function returns without suspension -- calls its continuation immediately\n   if (r !== COROUTINE_SUSPENDED)\n   cont.resume(r as R)\n   } else {\n   // we returned from a crossFunctionCompletion trampoline -- call resume here\n   this.result = UNDEFINED_RESULT // reset result back\n   cont.resumeWith(result)\n   }\n   }\n }\n}\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\n@file:kotlin.jvm.JvmName(\"NumbersKt\")\n@file:kotlin.jvm.JvmMultifileClass\npackage kotlin\n\nimport kotlin.math.sign\n\n/** Divides this value by the other value, flooring the result to an integer that is closer

 to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Byte): Int = \n   this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Byte): Byte = \n   this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Short): Int = \n   this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_

 and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Short): Short = \n   this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Int): Int = \n   this.toInt().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Int): Int = \n   this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic

 inline fun Byte.floorDiv(other: Long): Long = \n   this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Long): Long = \n   this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Byte): Int = \n   this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */

 */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Byte): Byte = \n   this.toInt().mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun

Short.floorDiv(other: Short): Int = \n   this.toInt().floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n

*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Short): Short = \n this.toInt().mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Int): Int = \n   this.toInt().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n

*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Int): Int = \n this.toInt().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Long): Long = \n   this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Long): Long = \n   this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Byte): Int = \n this.floorDiv(other.toInt())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Byte): Byte = \n this.mod(other.toInt()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Short): Int = \n this.floorDiv(other.toInt())\n\n/**\n * Calculates

 the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n

*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Short): Short = \n this.mod(other.toInt()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Int): Int {\n   var q = this / other\n   if (this xor other < 0 && q * other != this) q-- \n   return q\n}\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other:

 Int): Int {\n   val r = this % other\n   return r + (other and (((r xor other) and (r or -r)) shr 31))\n}\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Long): Long = \n this.toLong().floorDiv(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Long): Long = \n   this.toLong().mod(other)\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Byte): Long = \n this.floorDiv(other.toLong())\n\n/**\n

 * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n

*/\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Byte): Byte = \n this.mod(other.toLong()).toByte()\n\n/** Divides this value by the other value, flooring the result to an integer that

is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Short): Long = \n   this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Short): Short = \n   this.mod(other.toLong()).toShort()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Int): Long = \n   this.floorDiv(other.toLong())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Int): Int = \n   this.mod(other.toLong()).toInt()\n\n/** Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Long): Long {\n   var q = this / other\n   if (this xor other < 0 && q * other != this) q-- \n   return q\n}\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Long): Long {\n   val r = this % other\n   return r + (other and (((r xor other) and (r or -r)) shr 63))\n}\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Float.mod(other: Float): Float {\n   val r = this % other\n   return if (r != 0.0.toFloat() && r.sign != other.sign) r + other else r\n}\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Float.mod(other: Double): Double = \n   this.toDouble().mod(other)\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Double.mod(other: Float): Double = \n   this.mod(other.toDouble())\n\n/**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.\n * \n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.\n */\n@SinceKotlin(\"1.5\")\n@kotlin.internal.InlineOnly\npublic inline fun Double.mod(other: Double): Double {\n   val r = this % other\n   return if (r != 0.0 && r.sign != other.sign) r + other else r\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n\n/**\n * Returns a hash code value for the object or zero if the object is `null`.\n *\n * @see Any.hashCode\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0\n","/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language

contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Represents a version of the Kotlin standard library.\n *\n * [major], [minor] and [patch] are integer components of a version,\n * they must be non-negative and not greater than 255 ([MAX_COMPONENT_VALUE]).\n *\n * @constructor Creates a version from all three components.\n */\n@SinceKotlin(\"1.1\")\npublic

 class KotlinVersion(val major: Int, val minor: Int, val patch: Int) : Comparable<KotlinVersion> {\n   /**\n   * Creates a version from [major] and [minor] components, leaving [patch] component zero.\n   */\n   public constructor(major: Int, minor: Int) : this(major, minor, 0)\n\n   private val version = versionOf(major, minor, patch)\n\n   private fun versionOf(major: Int, minor: Int, patch: Int): Int {\n   require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {\n   \"Version components are out of range: $major.$minor.$patch\"\n   }\n   return major.shl(16) + minor.shl(8) + patch\n   }\n\n   /**\n   * Returns the string representation of this version\n   */\n   override fun toString(): String = \"$major.$minor.$patch\"\n\n   override fun equals(other: Any?): Boolean {\n   if (this === other) return true\n   val otherVersion = (other as? KotlinVersion) ?: return false\n

        return this.version == otherVersion.version\n   }\n   override fun hashCode(): Int = version\n\n   override fun compareTo(other: KotlinVersion): Int = version - other.version\n\n   /**\n   * Returns `true` if this version is not less than the version specified\n   * with the provided [major] and [minor] components.\n   */\n   public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)\n   this.major > major || (this.major == major &&\n   this.minor >= minor)\n\n   /**\n   * Returns `true` if this version is not less than the version specified\n   * with the provided [major], [minor] and [patch] components.\n   */\n   public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)\n   this.major > major || (this.major == major &&\n   (this.minor > minor || this.minor == minor &&\n   this.patch >= patch))\n\n

  companion object {\n   /**\n   * Maximum value a version component can have, a constant value 255.\n   */\n   // NOTE: Must be placed before CURRENT because its initialization requires this field being initialized in JS\n   public const val MAX_COMPONENT_VALUE = 255\n\n   /**\n   * Returns the current version of the Kotlin standard library.\n   */\n   @kotlin.jvm.JvmField\n   public val CURRENT: KotlinVersion = KotlinVersionCurrentValue.get()\n   }\n}\n\n// this class is ignored during classpath normalization when considering whether to recompile dependencies in Kotlin build\nprivate object KotlinVersionCurrentValue {\n   @kotlin.jvm.JvmStatic\n   fun get(): KotlinVersion = KotlinVersion(1, 6, 21) // value is written here automatically during build\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found

 in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"LateinitKt\")\n@file:Suppress(\"unused\")\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned a value, and `false` otherwise.\n *\n * Cannot be used in an inline function, to avoid binary compatibility issues.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\ninline val @receiver:AccessibleLateinitPropertyLiteral KProperty0<*>.isInitialized: Boolean\n   get() = throw NotImplementedError(\"Implementation is intrinsic\")\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"LazyKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin\n\nimport kotlin.reflect.KProperty\n\n/**\n

 * Represents a value with lazy initialization.\n *\n * To create an instance of [Lazy] use the [lazy] function.\n */\npublic interface Lazy<out T> {\n   /**\n   * Gets the lazily initialized value of the current Lazy instance.\n   * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.\n   */\n   public val value: T\n\n   /**\n   * Returns `true` if a value for this Lazy instance has been already initialized, and `false`

otherwise.\n   * Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.\n   */\n   public fun isInitialized(): Boolean\n}\n\n/**\n * Creates a new instance of the [Lazy] that is already initialized with the specified [value].\n */\npublic fun <T> lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)\n\n/**\n * An extension to delegate a read-only property of type [T] to an instance of [Lazy].\n *\n * This extension allows to use instances of Lazy for property delegation:\n * `val property: String by lazy { initializer }`\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<*>): T = value\n\n/**\n * Specifies how a [Lazy] instance synchronizes initialization among multiple threads.\n */\npublic enum class LazyThreadSafetyMode {\n\n   /**\n   * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.\n   */\n   SYNCHRONIZED,\n\n   /**\n   * Initializer function can be called several times on concurrent access to uninitialized [Lazy] instance value,\n   * but only the first returned value will be used as the value of [Lazy] instance.\n   */\n   PUBLICATION,\n\n   /**\n   * No locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple threads, its behavior is undefined.\n   *\n   * This mode should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.\n   */\n   NONE,\n}\n\n\ninternal object UNINITIALIZED_VALUE\n\n// internal to be called from lazy in JS\ninternal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {\n   private var initializer: (() -> T)? = initializer\n   private var _value: Any? = UNINITIALIZED_VALUE\n\n   override val value: T\n   get() {\n   if (_value === UNINITIALIZED_VALUE) {\n   _value = initializer!!()\n   initializer = null\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return _value as T\n   }\n\n   override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE\n\n   override fun toString(): String = if (isInitialized()) value.toString() else \"Lazy value not initialized yet.\"\n\n   private fun writeReplace(): Any = InitializedLazyImpl(value)\n}\n\ninternal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {\n   override fun isInitialized(): Boolean = true\n\n   override fun toString(): String = value.toString()\n\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"NumbersKt\")\npackage kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.takeHighestOneBit(): Int\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Int.takeLowestOneBit(): Int\n\n/**\n * Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

Int.rotateLeft(bitCount: Int): Int\n\n\n/**\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
 expect fun Int.rotateRight(bitCount: Int): Int\n\n\n/**\n * Counts the number of set bits in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Long] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is zero.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
 expect fun Long.takeHighestOneBit(): Long\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.takeLowestOneBit(): Long\n\n/**\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic
 expect fun Long.rotateLeft(bitCount: Int): Long\n\n/**\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Long.rotateRight(bitCount: Int): Long\n\n/**\n * Counts the number of set bits in the binary representation of this [Byte] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
 inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number,\n * or zero, if this

number is zero.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c

 inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\n\n/**\n * Returns a
number having a single bit set in the position of the least significant set bit of this [Byte] number,\n * or zero, if this
number is zero.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\n\n/**\n * Rotates the binary
representation of this [Byte] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the
number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-
n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or
 more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
Byte.rotateLeft(bitCount: Int): Byte =\n   (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and
7))).toByte()\n\n/**\n * Rotates the binary representation of this [Byte] number right by the specified [bitCount]
number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most
significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it
left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of
[Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) ==
number.rotateRight(n % 8)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
Byte.rotateRight(bitCount: Int): Byte =\n   (toInt().shl(8

 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()\n\n/**\n * Counts the number of set bits in
the binary representation of this [Short] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Short] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countLeadingZeroBits(): Int =\n   (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS
- Short.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary
representation of this [Short] number.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.countTrailingZeroBits():

 Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the
position of the most significant set bit of this [Short] number,\n * or zero, if this number is zero.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n/**\n *
Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\n * or
zero, if this number is zero.\n

*/\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n\n/**\n * Rotates the binary
representation of this [Short] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number

 as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as
rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a
multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 16)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Short.rotateLeft(bitCount: Int): Short =\n   (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n/**\n * Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n

/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Short.rotateRight(bitCount: Int): Short =\n   (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\n","/\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.2\")\n@Suppress(\"INVISIBLE_MEMBER\", \"INVISIBLE_REFERENCE\")\n@RequireKotlin(\"1.2.30\", level = DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic inline fun <R> suspend(noinline block: suspend () -> R): suspend () -> R = block\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"TuplesKt\")\n\npackage kotlin\n\n\n/**\n * Represents a generic pair of two values.\n *\n * There is no meaning attached to values in this class, it can be used for any purpose.\n * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\n *\n * An example of decomposing it into values:\n * @sample samples.misc.Tuples.pairDestructuring\n *\n * @param A type of the first value.\n * @param B type of the second value.\n * @property first First value.\n * @property second Second value.\n * @constructor Creates a new instance of Pair.\n */\npublic data class Pair<out A, out B>(\n   public val first: A,\n   public val second: B\n) : Serializable {\n\n   /**\n   * Returns string representation of the [Pair] including its [first] and [second] values.\n   */\n   public override fun toString(): String = \"($first, $second)\"\n}\n\n/**\n * Creates a tuple of type [Pair] from this and [that].\n *\n * This can be useful for creating [Map] literals with less noise, for example:\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\npublic infix fun <A, B> A.to(that: B): Pair<A, B> = Pair(this, that)\n\n/**\n * Converts this pair into a list.\n * @sample samples.misc.Tuples.pairToList\n */\npublic fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n/**\n * Represents a triad of values\n *\n * There is no meaning attached to values in this class, it can be used for any purpose.\n * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.\n * An example of decomposing it into values:\n * @sample samples.misc.Tuples.tripleDestructuring\n *\n * @param A type of the first value.\n * @param B type of the second value.\n * @param C type of the third value.\n * @property first First value.\n * @property second Second value.\n * @property third Third value.\n */\npublic data class Triple<out A, out B, out C>(\n   public val first: A,\n   public val second: B,\n   public val third: C\n) : Serializable {\n\n   /**\n   * Returns string representation of the [Triple] including its [first], [second] and [third] values.\n   */\n   public override fun toString(): String = \"($first, $second, $third)\"\n}\n\n/**\n * Converts this triple into a list.\n * @sample samples.misc.Tuples.tripleToList\n */\npublic fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first, second, third)\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `UInt`.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class UIntRange(start: UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\n   override val start: UInt get() = first\n   override val endInclusive: UInt get() = last\n\n   override fun contains(value: UInt): Boolean =

first <= value && value <= last\n\n   /** \n   * Checks if the range is empty.\n   \n   * The range is empty if its start value is greater than the end value.\n   */\n   override fun isEmpty(): Boolean = first > last\n\n   override fun equals(other: Any?): Boolean =\n   other is UIntRange && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n\n   override fun toString(): String = \"$first..$last\"\n\n   companion object {\n   /** An empty range of values of type UInt. */\n   public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)\n   }\n}\n\n/**\n * A progression of values of type `UInt`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class UIntProgression\ninternal constructor(\n   start: UInt,\n   endInclusive: UInt,\n   step: Int\n) : Iterable<UInt> {\n   init {\n   if (step == 0.toInt()) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n   if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\n   }\n\n   /**\n   * The first element in the progression.\n   */\n   public val first: UInt = start\n\n   /**\n   * The last element in the progression.\n   */\n   public val last: UInt = getProgressionLastElement(start, endInclusive, step)\n\n   /**\n   * The step of the progression.\n   */\n   public val step:
 Int = step\n\n   final override fun iterator(): Iterator<UInt> = UIntProgressionIterator(first, last, step)\n\n   /** \n   * Checks if the progression is empty.\n   \n   * Progression with a positive step is empty if its first element is greater than the last element.\n   * Progression with a negative step is empty if its first element is less than the last element.\n   */\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n   override fun equals(other: Any?): Boolean =\n   other is UIntProgression && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last && step == other.step)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\n\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n   companion object {\n   /**\n   * Creates UIntProgression within the specified bounds of a closed range.\n\n   * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n   * In order to go backwards the [step] must be negative.\n   *\n   * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n   */\n   public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart, rangeEnd, step)\n   }\n}\n\n/**\n * An iterator over a progression of values of type `UInt`.\n * @property step the number by which the value is incremented on each step.\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"DEPRECATION_ERROR\")\nprivate class UIntProgressionIterator(first: UInt, last: UInt, step: Int) : UIntIterator() {\n   private val finalElement = last\n   private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n   private val step = step.toUInt() // use 2-complement math for negative steps\n   private var next = if (hasNext) first else finalElement\n\n   override fun hasNext(): Boolean = hasNext\n\n   override fun nextUInt(): UInt {\n   val value = next\n   if (value == finalElement) {\n   if (!hasNext) throw kotlin.NoSuchElementException()\n   hasNext = false\n   } else {\n   next += step\n   }\n   return value\n   }\n}\n\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/** An iterator over a sequence of values of type `UByte`. */\n@Deprecated(\"This class is not going to be stabilized and is to be removed soon.\", level = DeprecationLevel.ERROR)\n@SinceKotlin(\"1.3\")\npublic abstract class UByteIterator : Iterator<UByte> {\n   final override fun next() = nextUByte()\n\n   /** Returns the next value in the sequence without boxing. */\n   public abstract fun nextUByte(): UByte\n}\n\n/** An iterator over a sequence of values of type `UShort`. */\n@Deprecated(\"This class is not going to be stabilized and is to be removed soon.\", level = DeprecationLevel.ERROR)\n@SinceKotlin(\"1.3\")\npublic abstract class UShortIterator : Iterator<UShort> {\n   final override fun next() = nextUShort()\n\n   /** Returns the next value in the sequence without boxing. */\n

public abstract fun nextUShort(): UShort\n}\n\n/** An iterator over a sequence of values of type `UInt`. */\n@Deprecated(\"This class is not going to be stabilized and is to be removed soon.\", level = DeprecationLevel.ERROR)\n@SinceKotlin(\"1.3\")\npublic abstract class UIntIterator : Iterator<UInt> {\n   final override fun next() = nextUInt()\n\n   /** Returns the next value in the sequence without boxing. */\n   public abstract fun nextUInt(): UInt\n}\n\n/** An iterator over a sequence of values of type `ULong`. */\n@Deprecated(\"This class is not going to be stabilized and is to be removed soon.\", level = DeprecationLevel.ERROR)\n@SinceKotlin(\"1.3\")\npublic abstract class ULongIterator : Iterator<ULong> {\n   final override fun next() = nextULong()\n\n   /** Returns the next value in the sequence without boxing. */\n   public abstract fun nextULong(): ULong\n}\n\n","/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `ULong`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {\n   override val start: ULong get() = first\n   override val endInclusive: ULong get() = last\n\n   override fun contains(value: ULong): Boolean = first <= value && value <= last\n\n   /** \n   * Checks if the range is empty.\n   \n   * The range is empty if its start value is greater than the end value.\n   */\n   override fun isEmpty(): Boolean = first > last\n\n   override fun equals(other: Any?): Boolean =\n   other is ULongRange && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt())\n\n   override fun toString(): String = \"$first..$last\"\n\n   companion object {\n   /** An empty range of values of type ULong. */\n   public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)\n   }\n}\n\n/**\n * A progression of values of type `ULong`.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class ULongProgression\ninternal constructor(\n   start: ULong,\n   endInclusive: ULong,\n   step: Long\n) : Iterable<ULong> {\n   init {\n   if (step == 0.toLong()) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n   if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on negation.\")\n   }\n\n   /**\n   * The first element in the progression.\n   */\n   public val first: ULong = start\n\n   /**\n   * The last element in the progression.\n   */\n   public val last: ULong = getProgressionLastElement(start, endInclusive, step)\n\n   /**\n   * The step of the progression.\n   */\n   public val step: Long = step\n\n   final override fun iterator(): Iterator<ULong> = ULongProgressionIterator(first, last, step)\n\n   /** \n   * Checks if the progression is empty.\n   \n   * Progression with a positive step is empty if its first element is greater than the last element.\n   * Progression with a negative step is empty if its first element is less than the last element.\n   */\n   public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n   override fun equals(other: Any?): Boolean =\n   other is ULongProgression && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last && step == other.step)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())\n\n   override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n   companion object {\n   /**\n   * Creates ULongProgression within the specified bounds of a closed range.\n\n   * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n   * In order to go backwards the [step] must be negative.\n   \n   * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\n   */\n   public fun fromClosedRange(rangeStart: ULong, rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)\n   }\n}\n\n\n/**\n * An iterator over a progression of values of type `ULong`.\n * @property step the number by which the value is incremented on each step.\n

/\n@SinceKotlin(\"1.3\")\n@Suppress(\"DEPRECATION_ERROR\")\nprivate class ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\n   private val finalElement = last\n   private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n   private val step = step.toULong() // use 2-complement math for negative steps\n   private var next = if (hasNext) first else finalElement\n\n   override fun hasNext(): Boolean = hasNext\n\n   override fun nextULong(): ULong {\n   val value = next\n   if (value == finalElement) {\n   if (!hasNext) throw kotlin.NoSuchElementException()\n   hasNext = false\n   } else {\n   next += step\n   }\n   return value\n   }\n}\n\n","/\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.math\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun min(a: UInt, b: UInt): UInt {\n   return minOf(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun min(a: ULong, b: ULong): ULong {\n   return minOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun max(a: UInt, b: UInt): UInt {\n   return maxOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun max(a: ULong, b: ULong): ULong {\n   return maxOf(a, b)\n}","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"UNumbersKt\")\npackage kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [UInt] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countOneBits(): Int = toInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UInt] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()\n\n/**\n * Rotates the binary representation of this [UInt] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UInt.SIZE_BITS]

(32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()\n\n\n/**\n * Rotates the binary representation of this [UInt] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()\n\n\n/**\n * Counts the number of set bits in the binary representation of this [ULong] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countOneBits(): Int = toLong().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()\n\n/**\n * Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()\n\n/**\n * Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()\n\n\n/**\n * Counts the number of set bits in the binary

representation of this [UByte] number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countOneBits(): Int = toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of

 this [UByte] number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte()\n\n/**\n

 * Returns a number having a single bit set in the position of the least significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()\n\n\n/**\n * Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n

*/\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n/**\n

 * Counts the number of set bits in the binary representation of this [UShort] number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort] number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countLeadingZeroBits(): Int = toShort().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UShort] number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countTrailingZeroBits():

Int = toShort().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class, ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeLowestOneBit(): UShort = toInt().takeLowestOneBit().toUShort()\n\n\n/**\n * Rotates the binary representation of this [UShort] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n */\n@SinceKotlin(\"1.6\")\n@WasExperimental(ExperimentalStdlibApi::class, ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n\n// (a - b) mod c\nprivate fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n   val ac = a % c\n   val bc = b % c\n   return if (ac >= bc) ac - bc else ac - bc + c}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n   val ac = a % c\n   val bc = b % c\n   return if (ac >= bc) ac - bc else ac - bc + c}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n

*/\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {\n

 step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toULong())\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n","/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"UStringsKt\") // string representation of unsigned numbers\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Byte] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns
 a string representation of this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Int] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n/**\n * Returns a string representation of this [Long] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic
 fun ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n\n/**\n * Parses the string as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatError(this)\n\n\n/**\n * Parses the string as a [UShort] number and

 returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShort(): UShort = toUShortOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUInt(): UInt

 = toUIntOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun

String.toUInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toULong(): ULong = toULongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException

 when [radix] is not a valid radix for string to number conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatError(this)\n\n\n\n\n/**\n * Parses the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)\n\n/**\n * Parses the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByteOrNull(radix: Int): UByte? {\n   val int = this.toUIntOrNull(radix) ?: return null\n

    if (int > UByte.MAX_VALUE) return null\n   return int.toUByte()\n}\n\n/**\n * Parses the string as an [UShort] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\n\n/**\n * Parses the string as an [UShort] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShortOrNull(radix: Int): UShort? {\n   val int = this.toUIntOrNull(radix) ?: return null\n   if (int > UShort.MAX_VALUE) return null\n   return int.toUShort()\n}\n\n/**\n * Parses the string as an [UInt] number and returns the result\n * or `null` if the string is not

 a valid representation of a number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [UInt] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUIntOrNull(radix: Int): UInt? {\n   checkRadix(radix)\n\n   val length = this.length\n   if (length == 0) return null\n\n   val limit: UInt = UInt.MAX_VALUE\n   val start: Int\n\n   val firstChar = this[0]\n   if (firstChar < '0') {\n   if (length == 1 || firstChar != '+') return null\n   start = 1\n   } else {\n   start = 0\n   }\n\n   val limitForMaxRadix = 119304647u // limit / 36\n\n   var limitBeforeMul = limitForMaxRadix\n

    val uradix = radix.toUInt()\n   var result = 0u\n   for (i in start until length) {\n   val digit = digitOf(this[i], radix)\n\n   if (digit < 0) return null\n   if (result > limitBeforeMul) {\n   if (limitBeforeMul == limitForMaxRadix) {\n   limitBeforeMul = limit / uradix\n\n   if (result > limitBeforeMul) {\n   return null\n   }\n   } else {\n   return null\n   }\n   }\n\n   result *= uradix\n\n   val beforeAdding = result\n   result += digit.toUInt()\n   if (result < beforeAdding) return null // overflow has happened\n   }\n\n   return result\n}\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n

*/\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\n\n/**\n

 * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number

conversion.\n *\n@SinceKotlin(\"1.5\")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toULongOrNull(radix: Int): ULong? {\n   checkRadix(radix)\n\n   val length = this.length\n   if (length == 0) return null\n   val limit: ULong = ULong.MAX_VALUE\n   val start: Int\n\n   val firstChar = this[0]\n   if (firstChar < '0') {\n   if (length == 1 || firstChar != '+') return null\n   start = 1\n   } else {\n   start = 0\n   }\n\n\n   val limitForMaxRadix = 512409557603043100uL // limit / 36\n\n   var limitBeforeMul = limitForMaxRadix\n   val uradix = radix.toULong()\n   var result = 0uL\n   for (i in start until length) {\n   val digit = digitOf(this[i], radix)\n\n   if (digit < 0) return null\n

        if (result > limitBeforeMul) {\n   if (limitBeforeMul == limitForMaxRadix) {\n   limitBeforeMul = limit / uradix\n\n   if (result > limitBeforeMul) {\n   return null\n   }\n   } else {\n
            return null\n   }\n   }\n\n   result *= uradix\n\n   val beforeAdding = result\n   result += digit.toUInt()\n   if (result < beforeAdding) return null // overflow has happened\n   }\n\n   return result\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n@file:Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the
 experimental unsigned types, including those types themselves.\n *\n * Usages of such API will be reported as warnings unless an explicit opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`,\n * or with the `-opt-in=kotlin.ExperimentalUnsignedTypes` compiler option is given.\n *\n * It's recommended to propagate the experimental status to the API that depends on unsigned types by annotating it with this annotation.\n *\n@RequiresOptIn(level = RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalUnsignedTypes\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by
 the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MathKt\")\n\n\npackage kotlin.math\n\n\n// constants, can't use them from nativeMath as they are not constants there\n\n/** Ratio of the circumference of a circle to its diameter, approximately 3.14159. *\n@SinceKotlin(\"1.2\")\npublic const val PI: Double = 3.141592653589793\n/** Base of the natural logarithms, approximately 2.71828. *\n@SinceKotlin(\"1.2\")\npublic const val E: Double = 2.718281828459045\n\n// region ================ Double Math ==\n\n/** Computes the sine of the angle [x] given in radians.\n *\n * Special cases:\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\n *\n@SinceKotlin(\"1.2\")\npublic expect fun sin(x: Double): Double\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n * Special cases:\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\n *\n@SinceKotlin(\"1.2\")\npublic expect
 fun cos(x: Double): Double\n\n/** Computes the tangent of the angle [x] given in radians.\n *\n * Special cases:\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\n *\n@SinceKotlin(\"1.2\")\npublic expect fun tan(x: Double): Double\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n *\n@SinceKotlin(\"1.2\")\npublic expect fun asin(x: Double): Double\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n *   - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n *\n@SinceKotlin(\"1.2\")\npublic expect fun acos(x: Double): Double\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `atan(NaN)` is `NaN`\n *\n@SinceKotlin(\"1.2\")\npublic

expect fun atan(x: Double): Double\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n *   - `atan2(0.0, 0.0)` is `0.0`\n *   - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n *   - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *   - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n *   - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n *   - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n *   - `atan2(+Inf, x)` is `PI/2` for finite `x`y\n *   - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n *   - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan2(y: Double, x: Double): Double\n\n/**\n * Computes

 the hyperbolic sine of the value [x].\n *\n * Special cases:\n *   - `sinh(NaN)` is `NaN`\n *   - `sinh(+Inf)` is `+Inf`\n *   - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sinh(x: Double): Double\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n *   - `cosh(NaN)` is `NaN`\n *   - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cosh(x: Double): Double\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n *   - `tanh(NaN)` is `NaN`\n *   - `tanh(+Inf)` is `1.0`\n *   - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tanh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n *   - `asinh(NaN)` is `NaN`\n *   - `asinh(+Inf)` is `+Inf`\n *   - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asinh(x: Double): Double\n\n/**\n

 * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n *   - `acosh(NaN)` is `NaN`\n *   - `acosh(x)` is `NaN` when `x < 1`\n *   - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acosh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n *   - `tanh(NaN)` is `NaN`\n *   - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n *   - `tanh(1.0)` is `+Inf`\n *   - `tanh(-1.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atanh(x: Double): Double\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n *   - returns `+Inf` if any of arguments is infinite\n *   - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\npublic expect fun hypot(x:

 Double, y: Double): Double\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n *   - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sqrt(x: Double): Double\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n *   - `exp(NaN)` is `NaN`\n *   - `exp(+Inf)` is `+Inf`\n *   - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun exp(x: Double): Double\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *   - `expm1(NaN)` is `NaN`\n *   - `expm1(+Inf)` is `+Inf`\n *   - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun expm1(x: Double): Double\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n *   - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n *   - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n *   - `log(+Inf, +Inf)` is `NaN`\n *   - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n *   - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log(x: Double, base: Double): Double\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n *   - `ln(NaN)` is `NaN`\n *   - `ln(x)` is `NaN` when `x < 0.0`\n *   - `ln(+Inf)` is `+Inf`\n *   - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ln(x: Double): Double\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log10(x: Double): Double\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic

 expect fun log2(x: Double): Double\n\n/**\n * Computes `ln(x + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *   - `ln1p(NaN)` is `NaN`\n *   - `ln1p(x)` is `NaN` where `x < -1.0`\n *   - `ln1p(-1.0)` is `-Inf`\n *   - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see

[expm1] function\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ln1p(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *   - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ceil(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest double value that is smaller than

or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *   - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun floor(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n *\n * Special cases:\n *   - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun truncate(x: Double): Double\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n *   - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun round(x: Double): Double\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n *   - `abs(NaN)`

is `NaN`\n *\n * @see absoluteValue extension property for [Double]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(x: Double): Double\n\n/**\n * Returns the sign of the given value [x]:\n *   - `-1.0` if the value is negative,\n *   - zero if the value is zero,\n *   - `1.0` if the value is positive\n *\n * Special case:\n *   - `sign(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sign(x: Double): Double\n\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Double, b: Double): Double\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Double, b: Double): Double\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n *   - `b.pow(0.0)` is `1.0`\n *   - `b.pow(1.0) == b`\n *   - `b.pow(NaN)` is `NaN`\n *   - `NaN.pow(x)` is

`NaN` for `x != 0.0`\n *   - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n *   - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.pow(x: Double): Double\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.pow(n: Int): Double\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *   - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\npublic expect val Double.absoluteValue: Double\n\n/**\n * Returns the sign of this value:\n *   - `-1.0` if the value is negative,\n *   - zero if the value is zero,\n *   - `1.0` if the value is positive\n *\n * Special case:\n *   - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect val Double.sign: Double\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN`

the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.withSign(sign: Double): Double\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.withSign(sign: Int): Double\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n *\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\n *\n * Special Cases:\n *   - `NaN.ulp` is `NaN`\n *   - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n *   - `0.0.ulp` is `Double.MIN_VALUE`\n */\n@SinceKotlin(\"1.2\")\npublic expect val Double.ulp: Double\n\n/**\n * Returns the [Double] value nearest to this value in direction of positive infinity.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.nextUp(): Double\n\n/**\n * Returns the [Double] value nearest to this value in direction of negative infinity.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.nextDown():

Double\n\n/**\n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].\n *\n * Special cases:\n *   - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n *   - `x.nextTowards(x) == x`\n *\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.nextTowards(to: Double): Double\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToInt() == Int.MAX_VALUE` when `x >

Int.MAX_VALUE`\n *   - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.roundToInt(): Int\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n

 *   - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.roundToLong(): Long\n\n// endregion\n\n\n\n// region ================ Float Math ====================================\n\n/** Computes the sine of the angle [x] given in radians.\n *\n * Special cases:\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sin(x: Float): Float\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n * Special cases:\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cos(x: Float): Float\n\n/** Computes the tangent of the angle [x] given in radians.\n *\n * Special cases:\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tan(x: Float): Float\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from

 `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asin(x: Float): Float\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n *   - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acos(x: Float): Float\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan(x: Float): Float\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n

 *   - `atan2(0.0, 0.0)` is `0.0`\n *   - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n *   - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *   - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n *   - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n *   - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n *   - `atan2(+Inf, x)` is `PI/2` for finite `x`y\n *   - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n *   - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan2(y: Float, x: Float): Float\n\n/**\n * Computes the hyperbolic sine of the value [x].\n *\n * Special cases:\n *   - `sinh(NaN)` is `NaN`\n *   - `sinh(+Inf)` is `+Inf`\n *   - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sinh(x: Float): Float\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n *   - `cosh(NaN)` is `NaN`\n

 *   - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cosh(x: Float): Float\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n *   - `tanh(NaN)` is `NaN`\n *   - `tanh(+Inf)` is `1.0`\n *   - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tanh(x: Float): Float\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n *   - `asinh(NaN)` is `NaN`\n *   - `asinh(+Inf)` is `+Inf`\n *   - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asinh(x: Float): Float\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n *   - `acosh(NaN)` is `NaN`\n *   - `acosh(x)` is `NaN` when `x < 1`\n *   - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acosh(x: Float): Float\n\n/**\n

 * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n *   - `tanh(NaN)` is `NaN`\n *   - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n *   - `tanh(1.0)` is `+Inf`\n *   - `tanh(-1.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atanh(x: Float): Float\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n *   - returns `+Inf` if any of arguments is infinite\n *   - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\npublic expect fun hypot(x: Float, y: Float): Float\n\n/**\n * Computes the

positive square root of the value [x].\n *\n * Special cases:\n *   - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sqrt(x: Float): Float\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n *   - `exp(NaN)` is `NaN`\n *   - `exp(+Inf)` is `+Inf`\n *   - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun exp(x: Float): Float\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *   - `expm1(NaN)` is `NaN`\n *   - `expm1(+Inf)` is `+Inf`\n *   - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun expm1(x: Float): Float\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n *   - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n *   - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n *   - `log(+Inf, +Inf)` is `NaN`\n *   - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n *   - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log(x: Float, base: Float): Float\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n *   - `ln(NaN)` is `NaN`\n *   - `ln(x)` is `NaN` when `x < 0.0`\n *   - `ln(+Inf)` is `+Inf`\n *   - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ln(x: Float): Float\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log10(x: Float): Float\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log2(x: Float): Float\n\n/**\n * Computes `ln(a + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *   - `ln1p(NaN)` is `NaN`\n *   - `ln1p(x)` is `NaN` where `x < -1.0`\n *   - `ln1p(-1.0)` is `-Inf`\n *   - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ln1p(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *   - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ceil(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *   - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun floor(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n\n * @return the value [x] having its fractional part truncated.\n *\n * Special cases:\n *   - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun truncate(x: Float): Float\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n *   - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun round(x: Float): Float\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n *   - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Float]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(x: Float): Float\n\n/**\n * Returns the sign of the given value [x]:\n *   - `-1.0` if the value is negative,\n *   - zero if the value is zero,\n *   - `1.0` if the value is positive\n *\n * Special case:\n *   - `sign(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sign(x: Float): Float\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Float, b: Float): Float\n\n// extensions\n\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n *   - `b.pow(0.0)` is `1.0`\n *   - `b.pow(1.0) == b`\n *   - `b.pow(NaN)` is `NaN`\n *   - `NaN.pow(x)` is `NaN` for `x != 0.0`\n *   - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n *   - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.pow(x: Float): Float\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.pow(n:

Int): Float\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *   - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\npublic expect val Float.absoluteValue: Float\n\n/**\n * Returns the sign of this value:\n *   - `-1.0` if the value is negative,\n *   - zero if the value is zero,\n *   - `1.0` if the value is positive\n *\n * Special case:\n *   - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect val Float.sign: Float\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.withSign(sign: Float): Float\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.withSign(sign: Int): Float\n\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n *   - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.roundToInt(): Int\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n *   - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.roundToLong(): Long\n\n\n// endregion\n\n\n// region ================ Integer Math ====================================\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n *   - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Int]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(n: Int): Int\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Int, b: Int): Int\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *   - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\npublic expect val Int.absoluteValue: Int\n\n/**\n * Returns the sign of this value:\n *   - `-1` if the value is negative,\n *   - `0` if the value is zero,\n *   - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic expect val Int.sign: Int\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n *   - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Long]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(n: Long): Long\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Long, b: Long): Long\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *   - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\npublic expect val Long.absoluteValue: Long\n\n/**\n * Returns the sign of this value:\n *   - `-1` if the value is negative,\n *   - `0` if the value is zero,\n *   - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic expect val Long.sign: Int\n\n\n// endregion\n"],"names":[],"mappings":"

AAWC,CAXA,yB;EACG,IAAI,OAAO,MAAO,KAAI,UAAW,IAAG,MAAM,IAA1C,C;IACI,MAAM,CAAC,QAAD,EAAW,CAAC,SAAD,CAAX,EAAwB,OAAxB,C;SAEL,IAAI,OAAO,OAAQ,KAAI,QAAvB,C;IACD,OAAO,CAAC,MAAM,QAAP,C;;IAGP,IAAI,OAAQ,GAAE,E;IACd,OAAO,CAAC,IAAI,OAAL,C;;CAEd,CAAC,IAAD,EAAO,kB;EACJ,IAAI,IAAI,M;ECPZ,MAAM,eAAgB,GAAE,a;IACpB,OAAoD,CAA5C,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,IAAG,CAAAE,YAAW,SAAAU,IAAG,CAAC,OAAQ,KAAI,c;G;EAGxE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,SAAU,IAAG,CAAC,OAAQ,KAAI,c;G;EAGlD,MAAM,aAAc,GAAE,a;IAClB,OAAO,CAAE,YAAW,U;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,WAAY,IAAG,CAAC,OAAQ,KAAI,W;G;EAGpD,MAAM,WAAY,GAAE,a;IAChB,OAAO,CAAE,YAAW,U;G;EAGxB,MAAM,aAAc,GAAE,a;IAClB,OAAO,CAAE,YAAW,Y;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,KAAK,QAAQ,CAAAC,CAAAC,CAAI,IA

AG,CAAC,OAAQ,KAAI,W;G;EAG5C,MAAM,QAAS,GAAE,a;IACb,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,CAAC,O;G;EAGjC,MAAM,WAAY,GAAE,a;IAChB,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,WAAW,OAAO,CAAC,CAAD,C;G;EAGjD,MAAM,cAAe,GAAE,a;IACnB,IAAI,CAAE,KAAI,IAAV,C;MAAgB,OAAO,M;IACvB,IAAI,WAAW,MAAM,YAAY,CAAC,CAAD,CAAI,GAAE,MAAM,aAAR,GAAAwB,MAAM,S;IACnE,OAAO,GAAI,GAAE,KAAK,UAAU,IAAI,KAAK,CAAC,CAAD,EAAI,a;MAAc,OAAO,QAAQ,CAAC,CAAD,C;KAAjC,CAAAwC,KAAK,CAAC,IAAD,CAAO,GAAE,G;G;EAG/F,MAAM,kBAAmB,GAAE,e;IACv B,OAAO,MAAM,OAAO,YAAY,wBAAwB,CAAC,GAAD,C;G;EAG5D,MAAM,YAAa,GAAE,gB;IACjB,IAAI,CAAE,KAAI,CAAAV,C;MACI,OAAO,I;;IAEX,IAAI,CAAE,KAAI,IAAK,IAAG,CAAE,KAAI,IAAK,IAAK,IAAG,CAAC,MAAM,WAAW,CAAC,CAAD,CAAI,CAAC,OAAQ,KAAI,CAAC,OAAAvE,C;MACI,OAAO,K;;IAGX,IAGX,KAAK,IAAI,IAAI,CAAR,EAAW,IAAI,CAAC,OAArB,EAA8B,IAAI,CAAC,OAAAqC,C;MACI,MAAM,OAAO,CAAC,CAAD,CAAI,CAAC,CAAD,C;;IAGtB,IAAI,kBAAkB,GAAAiB,CAAAjB,EAAAG,CAAAG,C;MACI,OAAO,K;;IAGX,OAAO,I;G;EAG1D,MAAM,cAAe,GAAAqB,CAAAjB,EAAAG,CAAAG,C;IACI,IAAAE,MAAM,SAAS,CAAC,CAAD,CAAI,GAAAG,CAAC,GAAG,CAAC,CAAD,CAAI,CAAAJ,CAAAU,GAAE,C;;IAE7D,IAE7D,OAAO,M;G;EAGX,MAAM,kBAAmB,GAAAwB,CAAAjB,EAAAG,CAAAG,C;IACvB,OAAO,MAAM,OAAO,OAAO,YAAY,wBAAwB,CAAC,GAAD,C;G;EAG5D,MAAM,mBAA oB,GAAE,iB;IACxB,KAAK,KAAK,CAAC,MAAM,gBAAP,C;G;ECpFd,MAAM,eAAgB,GAAE,mB;IACpB,CAAC,aAAc,GAAE,I;IACjB,OAAO,C;G;EAGX,MAAM,uBAAwB,GAAE,4C;IAC5B,MAAM,IAAK,GAAE,M;IACb,MAAM,IAAK,GAAE,M;IACb,MAAM,aAAc,GAAE,I;IACtB,OAAO,mBAAmB,CAAC,MAAD,EAAS,MAAT,EAAAiB,6BAAA6B,CAAC,UAAD,CAA9C,C;G;EAG9B,iD;IACI,GAAG,WAAY,GAAE,sBAAsB,CAAC,OAAO,M AAO,KAAI,UAAW,GAAE,KAAK,QAAP,GAAAkB,KAAK,UAArD,C;IACvC,GAAG,YAAa,GAAE,G;IAClB,OAAO,G;G;EAGX,IAAI,gCAAgC,CAChC,UACa,QAAS,IAAT,wBAAqC,Y;IAC1C,OAAO,MAAM,OAAO,QAAQ,k B;GADvB,CADb,aAAIe,QAAS,IAAT,wBAAqC,Y;IAC5C,OAAO,MAAM,OAAO,QAAQ,W;GADrB,CAJf,CADgC,EAAShC,UACa,QAAS,IAAT,wBAAqC,Y;IAC1C,OAAO,MAAM,OAAO,QAAQ,kB;GADvB,CADb,aAAIe,QAAS,IAAT,wBAAqC,Y;IAC5C,OAAO,MAAM,OAAO,QAAQ,W;GADrB,CAJf,CATgC,C;EAmBpC,uC;IACI,IAAI,KAAK,MAAO,KAAI,IAApB,C;MACI,KAAK,MAAO,GAAE,aACE,CAAC,KAAK,qBAAAqB,EAAA3B,CADR,CAAC,KAAK,qBAAAgB,EAAA3B,CAAA3B,CADF,aAEC,I AFD,aAGC,EAHD,cAIE,EAJF,SAKH,EALG,ALG,iBAMK,EANL,C;;IASlB,OAAO,KAAK,M;G;EAChDhB,MAAM,QA AS,GAAE,a;IACb,OAAAoB,OAAAoB,CAAAZ,CAAAE,EAAA,GAAE,KAAAQ,KAAAG,EAAA,IAAAE,E;G;EAGjC,MAAM,OAAQ,GAA E,a;IACZ,OAAAkB,CAAAZ,EAAA,CAAAE,EAAA,GAAAM,KAAAG,EAAAIAAG,E;G;EAG/B,MAAM,OAAQ,GAAAa,EAAA a;IACZ,OAAAQ,EAAA,CAAAE,EAAA,GAAE,K;G;EAGf,MAAM,aAAc,GAAE,a;IAClB,OAAO,CAAE,YAAW,MAAM,KAAM,GAAE,CAAAF,GAAAM,MAAM,KAAAK,WAAAC,CAAC,CAAD,C;G;EAGhE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,MAAM,MAAM,EAAAT,GAAAc,MAAM,cAAAM,EAAAT,GAAAM,MAAM,YAAAK,WAAAC,CAAC,CAAD C;G;EAGpE,MAAM,cAAe,GAAAqB,CAAAjB,C;IACjB,OAAO,CAAE,YAAW,MAAM,MAAM,EAAAT,GAAAc,MAAM,cAAAM,EAAAT,GAAAM,MAAM,YAAAoB,EAAAT,GAAAM,MAAM,OAAAO,EAAAT,GAAAM,MAAM,YAAAC,C;G;EAGpE,MAAM,YAAa,GAAAqB,CAAAjB,C;IACjB,OAAO,CAAE,YAAW,MAAM,MAAM,EAAAT,GAAAc,MAAM,cAAAM,EAAAT,GAAAM,MAAM,YAAAC,C;G;EAGpE,MAAM,YAAa,GAAE,a;IACjB,OAAO,C;G;EAGX,MAAM,cAAe,GAAAqB,CAAAjB,C;IACjB,OAAO,C;G;EAGX,MAAM,cAAe,GAAAqB,CAAAjB,C;IACjB,OAAO,C;G;EAGX,MAAM,YAAa,GAAE,a;IACjB,OAAO,C;G;EAGX,MAAM,cAAe,GAAAqB,CAAAjB,C;IACjB,OAAO,C;G;EAGX,MAAM,YAAa,GAAE,a;IACjB,OAAO,GAA

G,SAAU,GAAE,GAAG,SAAS,EAAd,GAAmB,iBAAiB,CAAC,GAAD,C;;IAElF,IAAI,UAAW,KAAI,OAAnB,C;
MACI,OAAO,iBAAiB,CAAC,GAAD,C;;IAE5B,IAAI,QAAS,KAAI,OAAjB,C;MACI,OAAO,MAAM,eAAe,CAA
C,GAAD,C;;IAEhC,IAAI,SAAU,KAAI,OAAlB,C;MACI,OAAO,MAAM,CAAC,GAAD,C;;IAGjB,IAAI,MAAM,
MAAM,CAAC,GAAD,C;IAChB,OAAO,iBAAiB,CAAC,GAAD,C;G;EAI5B,MAAM,SAAU,GAAE,a;IACd,IAAI,
CAAE,IAAG,IAAT,C;MACI,OAAO,M;WAEN,IAAI,MAAM,WAAW,CAAC,CAAD,CAArB,C;MACD,OAAO,O
;;MAGP,OAAO,CAAC,SAAS,E;;G;EAKzB,IAAI,WAAW,a;EAGf,IAAI,iCAAiC,sB;EAErC,gC;IACI,IAAI,EAAE
,8BAA+B,IAAG,GAApC,CAAJ,C;MACI,IAAI,OAAQ,IAAI,OAAO,EAAG,GAAE,QAAU,GAAE,C;MACxC,MA
AM,eAAe,CAAC,GAAD,EAAM,8BAAN,EAAsC,QAAU,IAAV,cAA4B,KAA5B,CAAtC,C;;IAEzB,OAAO,GAA
G,CAAC,8BAAD,C;G;EAGd,gC;IACI,IAAI,OAAO,C;IACX,KAAK,IAAI,IAAI,CAAAb,EAAgB,CAAAE,GAAE,G
AAG,OAAAvB,EAAgC,CAAC,EAAjC,C;MACI,IAAI,OAAQ,GAAG,WAAW,CAAC,CAAD,C;MAC1B,IAAM,G
AAG,IAAK,GAAAE,EAAAG,GAAAE,IAAM,GAAAE,C;;IAEjC,OAAO,I;G;EAGX,MAAM,iBAAkB,GAAAE,iB;EC9C1
B,MAAM,KAAM,GAAE,qB;IAKZ,IAAI,KAAM,GAAE,GAAI,GAAE,C;IAMlB,IAAI,MAAO,GAAE,IAAK,GA
AE,C;G;EAGtB,MAAM,KAAK,WAAY,GAAE,OACf,OADe,cAET,MAFS,cAGV,EAHU,C;EAgBzB,MAAM,KA
AK,UAAW,GAAE,E;EAQxB,MAAM,KAAK,QAAS,GAAE,iB;IACpB,IAAI,IAAK,IAAG,KAAM,IAAG,KAAM,
GAAE,GAA7B,C;MACE,IAAI,YAAY,MAAM,KAAK,UAAU,CAAC,KAAD,C;MACrC,IAAI,SAAJ,C;QACE,O
AAO,S;;;IAIX,IAAI,MAAM,IAAI,MAAM,KAAV,CAAgB,KAAM,GAAE,CAAxB,EAA2B,KAAM,GAAE,CAA
E,GAAE,EAAF,GAAO,CAA5C,C;IACV,IAAI,IAAK,IAAG,KAAM,IAAG,KAAM,GAAE,GAA7B,C;MACE,MA
AM,KAAK,UAAU,CAAC,KAAD,CAAQ,GAAE,G;;IAEjC,OAAO,G;;IAEjC,IAAI,KAAK,WAAY,GAAE,iB
;IACvB,IAAI,KAAK,CAAC,KAAD,CAAT,C;MACE,OAAO,MAAM,KAAK,K;WACb,IAAI,KAAM,IAAG,CAA
C,MAAM,KAAK,gBAAzB,C;MACL,OAAO,MAAM,KAAK,U;WACb,IAAI,KAAM,GAAE,CAAE,IAAG,MAA
M,KAAK,gBAA5B,C;MACL,OAAO,MAAM,KAAK,U;WACb,IAAI,KAAM,GAAE,CAAZ,C;MACL,OAAO,MA
AM,KAAK,WAAW,CAAC,CAAC,KAAF,CAAQ,OAAO,E;;MAE5C,OAAO,IAAI,MAAM,KAAV,CACF,KAAM
,GAAE,MAAM,KAAK,gBAAkB,GAAE,CADrC,EAAEF,KAAM,GAAE,MAAM,KAAK,gBAAkB,GAAE,CAFrC,
C;;G;EAcX,MAAM,KAAK,SAAU,GAAE,6B;IACrB,OAAO,IAAI,MAAM,KAAV,CAAgB,OAAhB,EAAyB,QA
AzB,C;G;EAWT,MAAM,KAAK,WAAY,GAAE,0B;IACvB,IAAI,GAAG,OAAQ,IAAG,CAAAlB,C;MACE,MAAM
,KAAK,CAAC,mCAAD,C;;IAGb,IAAI,QAAQ,SAAU,IAAG,E;IACzB,IAAI,KAAM,GAAE,CAAE,IAAG,EAAG,
GAAE,KAAtB,C;MACE,MAAM,KAAK,CAAC,sBAAuB,GAAE,KAA1B,C;;;IAGb,IAAI,GAAG,OAAO,CAAC,C
AAD,CAAI,IAAG,GAAArB,C;MACE,OAAO,MAAM,KAAK,WAAW,CAAC,GAAG,UAAU,CAAC,CAAD,CAAd
,EAAmB,KAAnB,CAAyB,OAAO,E;WACxD,IAAI,GAAG,QAAQ,CAAC,GAAD,CAAM,IAAG,CAAAxB,C;MACE
,MAAM,KAAK,CAAC,+CAAgD,GAAE,GAAnD,C;;;IAIb,IAAK,IAAI,eAAe,MAAM,KAAK,WAAW,CAAC,IA
AI,CAAAZ,EAAgB,KAAK,K;IACxB,IAAM,GAAG,OAAO,E;WAOtB,IAAI,GAAG,QAAQ,QAAQ,CAAC,GAAG,U
AAU,CAAC,CAAD,CAAI,IAAG,CAAAZ,C;;IAGvB,OAAO,M;G;EAcT,MAAM,KAAK,gBAAiB,GAAE,CAAE,IA
AG,E;EAOnC,MAAM,KAAK,gBAAiB,GACxB,MAAM,KAAK,gBAAiB,GAAE,CAAE,IAAG,E;EAOnC,MAAM,KA
AK,gBAAiB,GAAE,M;EAMK,KAAK,gBAAiB,GAAE,M;EAMK,KAAK,gBAAiB,GAAE,C;EAOlC,
MAAM,KAAK,gBAAiB,GAAE,M;EAMK,KAAK,gBAAiB,GAAE,M;EAMK,KAAK,gB;EAO7C,MAAM,KAAK,gB
AAiB,GAAE,M;EAMK,KAAK,gBAAiB,GAAE,M;EAMK,KAAK,gBAAiB,GAAE,C;EAIlC,MAAM,KAAK,KAAM,
GAAE,MAAM,KAAK,QAAQ,CAAC,CAAD,C;EAItC,MAAM,KAAK,IAAK,GAAE,MAAM,KAAK,QAAQ,CAAC,CAAD
,C;EAIrC,MAAM,KAAK,QAAS,GAAE,MAAM,KAAK,QAAQ,CAAC,EAAD,C;EAIzC,MAAM,KAAK,UAAW,GAClB,MAAM,
KAAK,SAAS,CAAC,aAAAW,GAAE,CAAd,EAAiB,UAAW,GAAE,CAA9B,C;EAIxB,MAAM,KAAK,UAAW,GAAE,MAAM,
KAAK,SAAS,CAAC,CAAD,EAAI,aAAW,GAAE,CAAjB,C;EAO5C,MAAM,KAAK,YAAa,GAAE,MAAM,KAAK,QAAQ,C
AAC,CAAE,IAAG,EAAAN,C;EAI7C,MAAM,KAAK,UAAU,MAAO,GAAE,Y;IAC5B,OAAO,IAAI,K;G;EAKb,M

AAM,KAAK,UAAU,SAAU,GAAE,Y;IAC/B,OAAO,IAAI,MAAO,GAAE,MAAM,KAAK,gBAAiB,GACzC,IAAI
,mBAAmB,E;G;EAIhC,MAAM,KAAK,UAAU,SAAU,GAAE,Y;IAC/B,OAAO,IAAI,MAAO,GAAE,IAAI,K;G;E
AQ1B,MAAM,KAAK,UAAU,SAAU,GAAE,qB;IAC/B,IAAI,QAAQ,SAAU,IAAG,E;IACzB,IAAI,KAAM,GAAE
,CAAE,IAAG,EAAG,GAAE,KAAtB,C;MACE,MAAM,KAAK,CAAC,sBAAuB,GAAE,KAA1B,C;;IAGb,IAAI,I
AAI,OAAO,EAAf,C;MACE,OAAO,G;;IAGT,IAAI,IAAI,WAAW,EAAnB,C;MACE,IAAI,IAAI,WAAW,CAAC,
MAAM,KAAK,UAAZ,CAAnB,C;QAGE,IAAI,YAAY,MAAM,KAAK,WAAW,CAAC,KAAD,C;QACtC,IAAI,M
AAM,IAAI,IAAI,CAAC,SAAD,C;QAClB,IAAI,MAAM,GAAG,SAAS,CAAC,SAAD,CAAW,SAAS,CAAC,IAA
D,C;QAC1C,OAAO,GAAG,SAAS,CAAC,KAAD,CAAQ,GAAE,GAAG,MAAM,EAAE,SAAS,CAAC,KAAD,C;;
QAEjD,OAAO,GAAAI,GAAE,IAAI,OAAO,EAAE,SAAS,CAAC,KAAD,C;;;IAMvC,IAAI,eAAe,MAAM,KAAK,
WAAW,CAAC,IAAI,IAAI,CAAC,KAAD,EAAQ,CAAR,CAAT,C;IAEzC,IAAI,MAAM,I;IACV,IAAI,SAAS,E;IA
Cb,OAAO,IAAP,C;MACE,IAAI,SAAS,GAAG,IAAI,CAAC,YAAD,C;MACpB,IAAI,SAAS,GAAG,SAAS,CAAC
,MAAM,SAAS,CAAC,YAAD,CAAhB,CAA+B,MAAM,E;MAC9D,IAAI,SAAS,MAAM,SAAS,CAAC,KAAD,C;
MAE5B,GAAI,GAAE,M;MACN,IAAI,GAAG,OAAO,EAAd,C;QACE,OAAO,MAAO,GAAE,M;;QAEhB,OAAO,
MAAM,OAAQ,GAAE,CAAvB,C;UACE,MAAO,GAAE,GAAI,GAAE,M;;QAEjB,MAAO,GAAE,EAAG,GAAE,
MAAO,GAAE,M;;;G;EAO7B,MAAM,KAAK,UAAU,YAAa,GAAE,Y;IAClC,OAAO,IAAI,M;G;EAKb,MAAM,K
AAK,UAAU,WAAY,GAAE,Y;IACjC,OAAO,IAAI,K;G;EAKb,MAAM,KAAK,UAAU,mBAAoB,GAAE,Y;IACz
C,OAAQ,IAAI,KAAM,IAAG,CAAG,GACpB,IAAI,KADgB,GACR,MAAM,KAAK,gBAAiB,GAAE,IAAI,K;G;E
AQpD,MAAM,KAAK,UAAU,cAAe,GAAE,Y;IACpC,IAAI,IAAI,WAAW,EAAnB,C;MACE,IAAI,IAAI,WAAW,
CAAC,MAAM,KAAK,UAAZ,CAAnB,C;QACE,OAAO,E;;QAEP,OAAO,IAAI,OAAO,EAAE,cAAc,E;;;MAGpC,
IAAI,MAAM,IAAI,MAAO,IAAG,CAAAE,GAAE,IAAI,MAAN,GAAe,IAAI,K;MAC7C,KAAK,IAAI,MAAM,EA
Af,EAAmB,GAAI,GAAE,CAAAzB,EAA4B,GAAG,EAA/B,C;QACE,IAAuB,CAAlB,GAAI,GAAG,CAAAE,IAAG,
GAAM,KAAAG,CAA1B,C;UACE,K;;;MAGJ,OAAO,IAAI,MAAO,IAAG,CAAAE,GAAE,GAAI,GAAE,EAAAR,GA
Aa,GAAI,GAAAE,C;;G;EAM9C,MAAM,KAAK,UAAU,OAAQ,GAAE,Y;IAC7B,OAAO,IAAI,MAAO,IAAG,CAA
E,IAAG,IAAI,KAAM,IAAG,C;G;EAKzC,MAAM,KAAK,UAAU,WAAY,GAAE,Y;IACjC,OAAO,IAAI,MAAO,
GAAE,C;G;EAKtB,MAAM,KAAK,UAAU,MAAO,GAAE,Y;IAC5B,OAAAuB,GAAE,CAAAf,IAAI,KAAM,GAAE,
CAAG,GAAE,C;G;EAQ5B,MAAM,KAAK,UAAU,WAAY,GAAE,iB;IACjC,OAAQ,IAAI,MAAO,IAAG,KAAK,M
AAQ,IAAI,IAAI,KAAM,IAAG,KAAK,K;G;EAQ3D,MAAM,KAAK,UAAU,cAAe,GAAE,iB;IACpC,OAAQ,IAAI,MA
AO,IAAG,KAAK,MAAQ,IAAI,IAAI,KAAM,IAAG,K;G;EAQ3D,MAAM,KAAK,UAAU,SAAU,GAAE,i
B;IAC/B,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,GAAE,C;G;EAQ/B,MAAM,KAAK,UAAU,gBAAiB,GAAE,
iB;IACtC,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,IAAG,C;G;EAQhC,MAAM,KAAK,UAAU,YAAa,GAAE,iB
;IAClC,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,GAAE,C;G;EAQ/B,MAAM,KAAK,UAAU,mBAAoB,GAAE,i
B;IACzC,OAAO,IAAI,QAAQ,CAAC,KAAD,CAAQ,IAAG,C;G;EAUhC,MAAM,KAAK,UAAU,QAAS,GAAE,iB
;IAC9B,IAAI,IAAI,WAAW,CAAC,KAAD,CAAnB,C;MACE,OAAO,C;;IAGT,IAAI,IAAI,UAAU,IAAI,WAAW,E;IAC
7B,IAAI,WAAW,KAAK,WAAW,E;IAC/B,IAAI,OAAQ,IAAG,CAAC,QAAAhB,C;MACE,OAAO,E;;MAEP,OAAO,
C;;G;EAMX,MAAM,KAAK,U;;MAElB,OAAO,IAAI,IAAI,EAA
E,IAAI,CAAC,MAAM,KAAK,IAAZ,C;;G;EAUzB,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAG1B,IAAI,MAAM
,IAAI,MAAO,KAAAI,E;IACzB,IAAI,MAAM,IAAI,MAAO,GAAE,K;IACvB,IAAI,MAAM,IAAI,KAAM,KAAAI,E;I
ACxB,IAAI,MAAM,IAAI,KAAM,GAAE,K;IAEtB,IAAI,MAAM,KAAK,MAAO,KAAAI,E;IAC1B,IAAI,MAAM,K
AAK,MAAO,GAAE,K;IACxB,IAAI,MAAM,KAAK,KAAM,KAAAI,E;IACzB,IAAI,MAAM,KAAK,KAAM,GAA
E,K;IAEvB,IAAI,MAAM,CAAV,EAAa,MAAM,CAAnB,EAAsB,MAAM,CAA5B,EAA+B,MAAM,C;IACrC,GA
AI,IAAG,GAAAI,GAAE,G;IACb,GAAI,IAAG,GAAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAAI,GA
AE,G;IACb,GAAI,IAAG,GAAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAAI,GAAE,G;IACb,GAAI,I
AAG,GAAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAAI,GAAE,G;IACb,GAAI,IAAG,K;IACP,OAAO
,MAAM,KAAK,SAAS,CAAAE,GAAI,IAAG,EAAAI,GAAE,GAAAf,EAAAqB,GAAI,IAAG,EAAI,GAAE,GAAlC,C;G;
EAS7B,MAAM,KAAK,UAAU,SAAU,GAAE,iB;IAC/B,OAAO,IAAI,IAAI,CAAC,KAAK,OAAO,EAAb,C;G;G;EA
SjB,MAAM,KAAK,UAAU,SAAU,GAAE,iB;IAC/B,IAAI,IAAI,OAAO,EAAf,C;MACE,OAAO,MAAM,KAAK,K

;WACb,IAAI,KAAK,OAAO,EAAhB,C;MACL,OAAO,MAAM,KAAK,K;;IAGpB,IAAI,IAAI,WAAW,CAAC,MA
AM,KAAK,UAAZ,CAAnB,C;MACE,OAAO,KAAK,MAAM,EAAG,GAAE,MAAM,KAAK,UAAb,GAA0B,MA
AM,KAAK,K;WACrD,IAAI,KAAK,WAAW,CAAC,MAAM,KAAK,UAAZ,CAApB,C;MACL,OAAO,IAAI,MA
AM,EAAG,GAAE,MAAM,KAAK,UAAb,GAA0B,MAAM,KAAK,K;;IAG3D,IAAI,IAAI,WAAW,EAAnB,C;MA
CE,IAAI,KAAK,WAAW,EAApB,C;QACE,OAAO,IAAI,OAAO,EAAE,SAAS,CAAC,KAAK,OAAO,EAAb,C;;Q
AE7B,OAAO,IAAI,OAAO,EAAE,SAAS,CAAC,KAAD,CAAO,OAAO,E;;WAExC,IAAI,KAAK,WAAW,EAApB
,C;MACL,OAAO,IAAI,SAAS,CAAC,KAAK,OAAO,EAAb,CAAgB,OAAO,E;;IAI7C,IAAI,IAAI,SAAS,CAAC,
MAAM,KAAK,YAAZ,CAA0B,IACvC,KAAK,SAAS,CAAC,MAAM,KAAK,YAAZ,CADlB,C;MAEE,OAAO,M
AAM,KAAK,WAAW,CAAC,IAAI,SAAS,EAAG,GAAE,KAAK,SAAS,EAAjC,C;;IAM/B,IAAI,MAAM,IAAI,M
AAO,KAAI,E;IACzB,IAAI,MAAM,IAAI,MAAO,GAAE,K;IACvB,IAAI,MAAM,IAAI,KAAM,KAAI,E;IACxB,I
AAI,MAAM,IAAI,KAAM,GAAE,K;IAEtB,IAAI,MAAM,KAAK,MAAO,KAAI,E;IAC1B,IAAI,MAAM,KAAK,
MAAO,GAAE,K;IACxB,IAAI,MAAM,KAAM,KAAM,KAAI,E;IACzB,IAAI,MAAM,KAAK,KAAM,GAAE,K;I
AEvB,IAAI,MAAM,CAAV,EAAa,MAAM,CAAnB,EAAsB,MAAM,CAA5B,EAA+B,MAAM,C;IACrC,GAAI,IA
AG,GAAI,GAAE,G;IACb,GAAI,IAAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GAAE,G;I
ACb,GAAI,IAAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GAAE,G;IACb,GAAI,IAAG,G
AAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GAAE,G;IACb,GAAI,IAAG,GAAI,KAAI,E;IACf,G
AAI,IAAG,K;IACP,GAAI,IAAG,GAAI,GAAE,G;IACb,GAAI,IAAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,
GAAI,IAAG,GAAI,GAAE,G;IACb,GAAI,IAAG,GAAI,KAAI,E;IACf,GAAI,IAAG,K;IACP,GAAI,IAAG,GAAI,
GAAE,GAAI,GAAE,GAAI,GAAE,GAAI,GAAE,GAAI,GAAE,GAAI,GAAE,G;IACjD,GAAI,IAA
G,K;IACP,OAAO,MAAM,KAAK,SAAS,CAAE,GAAI,IAAG,EAAI,GAAE,GAAf,EAAqB,GAAI,IAAG,EAAI,G
AAE,GAAlC,C;G;EAS7B,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAC1B,IAAI,KAAK,OAAO,EAAhB,C;MACE
,MAAM,KAAK,CAAC,kBAAD,C;WACN,IAAI,IAAI,OAAO,EAAf,C;MACL,OAAO,MAAM,KAAK,K;;IAGpB,
IAAI,IAAI,WAAW,CAAC,MAAM,KAAK,UAAZ,CAAnB,C;MACE,IAAI,KAAK,WAAW,CAAC,MAAM,KAA
K,IAAZ,CAAkB,IAClC,KAAK,WAAW,CAAC,MAAM,KAAK,QAAZ,CADpB,C;QAEE,OAAO,MAAM,KAAK,
U;aACb,IAAI,KAAK,WAAW,CAAC,MAAM,KAAK,UAAZ,CAApB,C;QACL,OAAO,MAAM,KAAK,I;;QAGlB,
IAAI,WAAW,IAAI,WAAW,CAAC,CAAD,C;QAC9B,IAAI,SAAS,QAAQ,IAAI,CAAC,KAAD,CAAO,UAAU,C
AAC,CAAD,C;QAC1C,IAAI,MAAM,WAAW,CAAC,MAAM,KAAK,KAAZ,CAArB,C;UACE,OAAO,KAAK,W
AAW,EAAG,GAAE,MAAM,KAAK,IAAb,GAAoB,MAAM,KAAK,Q;;UAEzD,IAAI,MAAM,IAAI,SAAS,CAAC,
KAAK,SAAS,CAAC,MAAD,CAAAf,C;UACvB,IAAI,SAAS,MAAM,IAAI,CAAC,GAAG,IAAI,CAAC,KAAD,CA
AR,C;UACvB,OAAO,M;;;WAGN,IAAI,KAAK,WAAW,CAAC,MAAM,KAAK,UAAZ,CAApB,C;MACL,OAAO,
IAAI,OAAO,EAAAE,IAAI,CAAC,KAAK,OAAO,EAAb,C;;QAExB,OAAO,IAAI,OAAO,EAAAE,IAAI,CAAC,KAA
D,CAAO,OAAO,E;;WAEnC,IAAI,KAAK,WAAW,EAApB,C;MACL,OAAO,IAAI,IAAI,CAAC,KAAK,OAAO,E
AAb,CAAgB,OAAO,E;;IAQxC,IAAI,MAAM,MAAM,KAAK,K;IACrB,IAAI,MAAM,I;IACV,OAAO,GAAG,mB
AAmB,CAAC,KAAD,CAA7B,C;MAGE,IAAI,SAAS,IAAI,IAAI,CAAC,CAAD,EAAAI,IAAI,MAAM,CAAC,GAA
G,SAAS,EAAAG,GAAAE,KAAAK,SAAS,EAAAhC,CAAd,C;MAIrB,IAAI,OAAO,IAAI,KAAC,CAAC,IAAI,IAAI,CA
AC,MAAD,CAAAS,GAAAE,IAAI,IAAxB,C;MACpB,IAAI,QAAAS,IAAK,IAAG,EAAAE,GAAAE,GAAE,CAAF,GAA
M,IAAI,I;IACpB,IAAI,CAAC,CAAD,EAAAI,IAAK,GAAAE,EAAAX,C;;MACtC,IAAI,YAAY,MAAM,KAAK,WAA
W,CAAC,MAAD,C;IACtC,IAAY,SAAAS,SAAS,CAAAC,KAAD,C;IAClC,OAAO,SAAS,WAAAW,EAAG,GAAAE,
IAAG,SAAS,YAAY,C;;QACtD,IAAI,SAAAAU,GAAAAE,MAAM,MAAM,KAAK,WAAW,CAAC,MAAD,C;;MAK
hC,IAAI,SAAS,OAAO,EAAAApC,C;QACE,SAAU,GAAE,MAAM,KAAK,I;;MAGzB,GAAI,GAAAE,GAAE,GAAG
,IAAAC,CAAC,SAAD,C;MACb,GAAI,GAAAE,GAAE,GAAG,SAAAAS,C;;IAEpB,OAAO,G;;G;EAST,MAAM,KAAK
,UAAU,OAAAQ,GAAAAE,iB;IAC7B,OAAO,IAAI,SAAS,CAAC,IAAI,IAAI,CAAAC,KAAD,CAAO,SAAAAC,CAAC,
KAAD,CAAAzB,C;;G;EAKtB,MAAM,KAAK,UAAU,IAAK,GAAAE,Y;IAC1B,IAAI,OAAO,MAAM,KAAK,SAAA
C,CAAC,CAAAC,IAAI,KAAAN,EAAAAa,CAAAAC,CAAAAAlB,C;;G;EAS7B,MAAM,KAAK,UAAU,IAAK,GAAAE,iB;I
ACzB,OAAO,MAAM,KAAK,SAAS,CAAC,IAAI,KAAAM,GAAAAE,KAAAK,KAAAlB,EAAAAC,IAAI,MAAO,GAAE,
KA

AK,MADtB,C;G;EAU7B,MAAM,KAAK,UAAU,IAAK,GAAE,iB;IAC1B,OAAO,MAAM,KAAK,SAAS,CAAC,I
AAI,KAAM,GAAE,KAAK,KAAlB,EACI,IAAI,MAAO,GAAE,KAAK,MADtB,C;G;EAU7B,MAAM,KAAK,UA
AU,UAAW,GAAE,mB;IAChC,OAAQ,IAAG,E;IACX,IAAI,OAAQ,IAAG,CAAf,C;MACE,OAAO,I;;MAEP,IAAI
,MAAM,IAAI,K;MACd,IAAI,OAAQ,GAAE,EAAd,C;QACE,IAAI,OAAO,IAAI,M;QACf,OAAO,MAAM,KAAK
,SAAS,CACvB,GAAI,IAAG,OADgB,EAEtB,IAAK,IAAG,OAAS,GAAG,GAAI,KAAK,EAAG,GAAE,OAFZ,C;;
QAI3B,OAAO,MAAM,KAAK,SAAS,CAAC,CAAD,EAAI,GAAI,IAAI,OAAQ,GAAE,EAAtB,C;;;G;EAWjC,MA
AM,KAAK,UAAU,WAAY,GAAE,mB;IACjC,OAAQ,IAAG,E;IACX,IAAI,OAAQ,IAAG,CAAf,C;MACE,OAAO,
I;;MAEP,IAAI,OAAO,IAAI,M;MACf,IAAI,OAAQ,GAAE,EAAd,C;QACE,IAAI,MAAM,IAAI,K;QACd,OAAO,
MAAM,KAAK,SAAS,CACtB,GAAI,KAAI,OAAS,GAAG,IAAK,IAAI,EAAG,GAAE,OADZ,EAEvB,IAAK,IAA
G,OAFe,C;;QAI3B,OAAO,MAAM,KAAK,SAAS,CACvB,IAAK,IAAI,OAAQ,GAAE,EADI,EAEvB,IAAK,IAAG
,CAAE,GAAE,CAAF,GAAM,EAFO,C;;;G;EAejC,MAAM,KAAK,UAAU,mBAAoB,GAAE,mB;IACzC,OAAQ,I
AAG,E;IACX,IAAI,OAAQ,IAAG,CAAf,C;MACE,OAAO,I;;MAEP,IAAI,OAAO,IAAI,M;MACf,IAAI,OAAQ,G
AAE,EAAd,C;QACE,IAAI,MAAM,IAAI,K;QACd,OAAO,MAAM,KAAK,SAAS,CACtB,GAAI,KAAI,OAAS,GA
AG,IAAK,IAAI,EAAG,GAAE,OADZ,EAEvB,IAAK,KAAI,OAFc,C;aAGtB,IAAI,OAAQ,IAAG,EAAf,C;QACL,
OAAO,MAAM,KAAK,SAAS,CAAC,IAAD,EAAO,CAAP,C;;QAE3B,OAAO,MAAM,KAAK,SAAS,CAAC,IAA
K,KAAK,OAAQ,GAAE,EAArB,EAA0B,CAA1B,C;;;G;EAMjC,MAAM,KAAK,UAAU,OAAQ,GAAE,iB;IAC3B,
OAAO,KAAM,YAAW,MAAM,KAAM,IAAG,IAAI,WAAW,CAAC,KAAD,C;G;EAG1D,MAAM,KAAK,UAAU,
gBAAiB,GAAE,MAAM,KAAK,UAAU,Q;EAE7D,MAAM,KAAK,UAAU,IAAK,GAAE,Y;IACxB,OAAO,IAAI,I
AAI,CAAC,MAAM,KAAK,IAAZ,C;G;EAGnB,MAAM,KAAK,UAAU,IAAK,GAAE,Y;IACxB,OAAO,IAAI,IAA
I,CAAC,MAAM,KAAK,QAAZ,C;G;EAGnB,MAAM,KAAK,UAAU,QAAS,GAAE,Y;IAC5B,OAAO,IAAI,SAAS
,E;G;EAGxB,MAAM,KAAK,UAAU,UAAW,GAAE,Y;IAC9B,OAAO,I;G;EAGX,MAAM,KAAK,UAAU,WAAY,
GAAE,MAAM,KAAK,UAAU,O;EACxD,MAAM,KAAK,UAAU,IAAK,GAAE,MAAM,KAAK,UAAU,I;EAEjD,
MAAM,KAAK,UAAU,QAAS,GAAE,iB;IAC5B,OAAO,IAAI,MAAM,OAAO,OAAO,UAAxB,CAAmC,IAAnC,E
AAyC,KAAzC,C;G;EC1zBX,MAAM,aAAc,GAAE,2B;G;EAGtB,MAAM,qBAAsB,GAAE,oB;IAC1B,OAAO,G;
G;EAGX,MAAM,aAAc,GAAE,e;IAClB,IAAI,IAAI,Y;IACJ,CAAE,GAAE,GAAG,E;IACP,OAAO,CAAC,MA
AM,CAAC,IAAD,EAAO,SAAP,C;K;IAElB,OAAO,Y;IACH,OAAO,CAAC,MAAM,CAAC,IAAD,EAAO,SAAP
,C;K;G;EAItB,MAAM,SAAU,GAAE,gB;IACd,OAAO,kB;MACH,OAAO,OAAO,MAAO,KAAI,I;K;G;EAIjC,MA
AM,aAAc,GAAE,iB;IAClB,OAAO,kB;MACH,OAAO,MAAO,OAAO,CAAC,MAAD,EAAS,KAAT,C;K;G;EAI5
B,MAAM,OAAQ,GAAE,c;IACZ,OAAO,kB;MACH,OAAO,MAAO,IAAG,IAAK,IAAG,EAAE,CAAC,MAAD,C;
K;G;EAInC,MAAM,aAAc,GAAE,gB;IAClB,OAAO,kB;MACH,OAAO,CAAC,CAAC,MAAD,CAAS,IAAG,CAA
C,CAAC,MAAD,C;K;G;EAI7B,MAAM,qBAAsB,GAAE,wC;G;EAG9B,MAAM,YAAa,GAAE,iB;IACjB,OAAO,
K;G;EAGX,MAAM,gBAAiB,GAAE,qB;IACrB,gBAAgB,E;G;EAGpB,MAAM,oBAAqB,GAAE,qB;IACzB,gBA
AgB,E;G;EAGpB,MAAM,kBAAmB,GAAE,qB;IACvB,gBAAgB,E;G;EAGpB,MAAM,mBAAoB,GAAE,4B;IAC
xB,gBAAgB,E;G;EAGpB,MAAM,6BAA8B,GAAE,yB;IAClC,gBAAgB,E;G;EAGpB,4B;IACI,MAAM,IAAI,KAAJ
,CACF,iDAAkD,GAClD,qDAAsD,GACtD,uDAHE,C;G;EAMV,MAAM,gBAAiB,GAAE,4B;IACrB,OAAO,Y;M
ACH,OAAO,Y;K;K;G;ECjFf,MAAM,UAAW,GAAE,gB;IACf,IAAI,QAAQ,OAAO,C;IACnB,IAAI,KAAM,KAAI,
QAAd,C;MACI,OAAO,CAAAE,KAAAI,QAAAjB,C;QACI,OAAO,MAAM,gBAAgB,CAAC,CAAD,EAAI,CAAJ,
C;;MAEjC,OAAO,MAAM,mBAAmB,CAAC,CAAD,EAAI,QAAJ,C;C;;MAEjC,OAAO,CAAC,CAAD,gBAAgB,
CAAC,CAAD,C;G;EAG5B,MAAM,mBAAoB,GAAE,gB;IACxB,OAAO,CAAAE,KAAAI,QAAAjB,C;MACI,OAAO
,MAAM,CAAE,KAAI,QAAQ,CAAAE,KAAAI,QAAQ,CAAAE,KAAAI,QAAQ,E;MACjC,OAAO,C;G;EAGpC,M
AAM,gBAAiB,GAAE,gB;IACrB,IAAI,CAAE,GAAE,CAAR,C;MACI,CAAAE,KAAAI,QAAQ,E;IAClB,OAAO,Y
;MACH,OAAO,CAAE,GAAE,CAAE,GAAE,CAAE,GAAE,C;K;G;ECvBrB,OAAO,CAAAE,KAAA,CAAAhB,C;IA
AI,CAAE,GAAE,GAAG,E;YAA

Y,KAAG,CAAE,GAAE,KAAP,CAAe,GAAe,CAAZ,CAAE,GAAE,KAAQ,KAAG,CAAE,GAAE,CAAP,CAAW,
GAAE,C;G;EA6DtE,CA1DD,Y;IACG,IAAI,MAAM,IAAI,WAAJ,CAAgB,CAAhB,C;IACV,IAAI,aAAa,IAAI,YA
AJ,CAAiB,GAAjB,C;IACjB,IAAI,aAAa,IAAI,YAAJ,CAAiB,GAAjB,C;IACjB,IAAI,WAAW,IAAI,UAAJ,CAAe,
GAAf,C;IACf,IAAI,WAAW,C;IACf,IAAI,YAAY,C;IAEhB,UAAU,CAAC,CAAD,CAAI,GAAE,E;IAChB,IAAI,Q
AAQ,CAAC,QAAD,CAAW,KAAI,CAA3B,C;MACI,QAAS,GAAE,C;MACX,SAAU,GAAE,C;;IAGhB,MAAM,a
AAc,GAAE,iB;MAClB,OAAO,MAAM,gBAAgB,CAAC,KAAK,CAAC,KAAD,CAAAQ,GAAE,GAAF,GAAQ,KA
AtB,C;K;IAGjC,MAAM,gBAAiB,GAAE,iB;MACrB,UAAU,CAAC,CAAD,CAAI,GAAE,K;MAChB,OAAO,MA
AM,KAAK,SAAS,CAAC,QAAQ,CAAC,QAAD,CAAT,EAAqB,QAAQ,CAAC,SAAD,CAA7B,C;K;IAG/B,MAA
M,eAAgB,GAAE,iB;MACpB,QAAQ,CAAC,QAAD,CAAW,GAAE,KAAK,K;K;MAC1B,QAAQ,CAAC,SAAD,CA
AY,GAAE,KAAK,M;MAC3B,OAAO,UAAU,CAAC,CAAD,C;K;IAGrB,MAAM,YAAa,GAAE,iB;MACjB,OAA
O,MAAM,eAAe,CAAC,KAAK,CAAC,KAAD,CAAAQ,GAAE,GAAF,GAAQ,KAAtB,C;K;IAGhC,MAAM,eAAgB
,GAAE,iB;MACpB,UAAU,CAAC,CAAD,CAAI,GAAE,K;MAChB,OAAO,QAAQ,CAAC,CAAD,C;K;IAGnB,M
AAM,cAAe,GAAE,iB;MACnB,QAAQ,CAAC,CAAD,CAAI,GAAE,K;MACd,OAAO,UAAU,CAAC,CAAD,C;K;I
AIrB,MAAM,cAAe,GAAE,iB;MACnB,UAAU,CAAC,CAAD,CAAI,GAAE,K;MAChB,OAAO,QAAQ,CAAC,SA
AD,CAAY,GAAE,a;K;IAGjC,MAAM,eAAgB,GAAE,e;MACpB,IAAc,CAAT,GAAI,GAAE,CAAG,MAAI,GAAl
B,C;QACI,OAAO,GAAI,GAAE,C;;QAGb,UAAU,CAAC,CAAD,CAAI,GAAE,G;QAChB,OAAsC,CAA9B,QAA
Q,CAAC,SAAD,CAAY,GAAE,EAAG,GAAE,CAAG,IAAE,QAAQ,CAAC,QAAD,CAAW,GAAE,C;;K;GAGvE,
G;EAEF,MAAM,cAAe,GAAE,a;IACnB,OAAO,CAAE,IAAG,IAAK,GAAE,CAAF,GAAM,MAAM,SAAS,E;G;E
C7G1C,IAAI,OAAO,MAAM,UAAU,WAAY,KAAI,WAA3C,C;IACI,MAAM,eAAe,CAAC,MAAM,UAAP,EAA
mB,YAAnB,EAAiC,QAC3C,kC;MACH,QAAS,GAAE,QAAS,IAAG,C;MACvB,OAAO,IAAI,YAAY,CAAC,YA
AD,EAAe,QAAf,CAAyB,KAAI,Q;KAHN,CAAjC,C;;EAOzB,IAAI,OAAO,MAAM,UAAU,SAAU,KAAI,WAAz
C,C;IACI,MAAM,eAAe,CAAC,MAAM,UAAP,EAAmB,UAAnB,EAA+B,QACzC,kC;MACH,IAAI,gBAAgB,IA
AI,SAAS,E;MACjC,IAAI,QAAS,KAAI,SAAU,IAAG,QAAS,GAAE,aAAa,OAAtD,C;QACI,QAAS,GAAE,aAAa,
O;;MAE5B,QAAS,IAAG,YAAY,O;MACxB,IAAI,YAAY,aAAa,QAAQ,CAAC,YAAD,EAAe,QAAf,C;MACrC,O
AAO,SAAU,KAAI,EAAG,IAAG,SAAU,KAAI,Q;KARG,CAA/B,C;;EAazB,IAAI,OAAO,IAAI,KAAM,KAAI,W
AAzB,C;IACI,IAAI,KAAM,GAAE,CAAC,C;MACL,IAAI,CAAE,GAAE,CAAC,C;MACL,IAAI,CAAE,IAAG,K
AAK,CAAC,CAAD,CAApB,C;QACI,OAAO,MAAM,CAAC,CAAD,C;;;MAEjB,OAAO,CAAE,GAAE,CAAE,GA
AE,CAAF,GAAM,E;K;;EAG3B,IAAI,OAAO,IAAI,MAAO,KAAI,WAA1B,C;IACI,IAAI,MAAO,GAAE,a;MACT,
IAAI,KAAK,CAAC,CAAD,CAAT,C;QACI,OAAO,G;;MAEX,IAAI,CAAE,GAAE,CAAR,C;QACI,OAAO,IAAI,
MAAM,CAAC,CAAD,C;;MAErB,OAAO,IAAI,KAAK,CAAC,CAAD,C;K;;EAuKtB,CAnKD,Y;IACG,IAAI,UA
AU,qB;IACd,IAAI,iBAAiB,IAAI,KAAK,CAAC,OAAD,C;IAC9B,IAAI,iBAAiB,IAAI,KAAK,CAAC,cAAD,C;IA
C9B,IAAI,uBAAuB,CAAC,GAAC,c;IAC7B,IAAI,uBAAuB,CAAC,GAAC,c;IAE7B,IAAI,OAAO,IAAI,KAAM,K
AAI,WAAzB,C;MACI,IAAI,KAAM,GAAE,a;QACR,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;U
ACI,IAAI,SAAS,C;;UUCI,IAAI,SAAS,C;;UUCb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;Y;YA
CI,MAAO,M;;UAEP,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;YACI,KAAK,CAAE,GAAE,C;Y;
YACI,MAAM,CAAC,CAAD,CAAI,GAAE,C;UAChB,IAAI,KAAK,CAAE,GAAE,C;K;UUChB,IAAI,IAAI,IAA
I,CAAC,CAAD,CAAI,GAAE,cAAlB,C;YACI,KAAK,CAAE,GAAE,C;Y;YACI,MAAM,CAAC,CAAD,C;;;IAI9
B,IAAI,OAAO,IAAI,KAAM,KAAI,WAAzB,C;MACI,IAAI,KAAM,GAAE,a;QACR,IAAI,IAAI,IAAI,CAAC,CA
AD,CAAI,GAAE,cAAlB,C;QACI,CAAD,C;QAChB,IAAI,KAAK,CAAE,GAAE,C;QACb,IAAI,CAAC,QAAQ,C
AAC,CAAD,CAAI,GAAE,cAAlB,C;;QAEI,CAAE,GAAE,CAAC,C;;MAErB,OAAO,IAAI,CAAC,CAAD,C;;IA
AI,IAAnB,C;QACldD,OAAgB,CAAR,CAAE,GAAE,GAAE,EAAI,IAAE,C;;O;;IAI1B,IAAI,OAAO,IAAI,KAAM
,KAAI,WAAzB,C;MACI,IAAI,KAAM,GAAE,a;QACR,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;U
ACI,IAAI,SAAS,C;;QACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;UACI,CAAD,C;UAChB,IAAI
,KAAK,CAAE,GAAE,C;UACb,IAAI,CAAC,QAAQ,CAAC,CAAD,CAAI,GAAE,cAAlB,C;;UAEI,CAAE,GAA
E,CAAC,C;;MAErB,OAAO,IAAI,CAAC,CAAD,C;;IAAI,IAAnB,C;QAClDD,OAAgB,CAAR,CAAE,GAAE,G
AAE,EAAI,IAAE,C;;O;;IAI1B,IAAI,OAAO,IAAI,KAAM,KAAI,WAAzB,C;MACI,IAAI,KAAM,GAAE,a;QA
CR,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cAAlB,C;UACI,IAAI,SAAS,C;;QACb,IAAI,IAAI,IAAI,CAA
C,CAAD,CAAI,GAAE,cAAlB,C;UACI,CAAD,C;UAChB,IAAI,QAAQ,C;UACb,IAAI,QAAQ,C;Q;Q;;IAQt
E,IAAI,OA
AO,IAAI,MAAO,KAAI,WAA1B,C;MACI,IAAI,QAAQ,a;QACR,IAAI,CAAE,IAAG,CAAC,cAAV,C;;UAEI,IAAI

,CAAE,GAAE,oBAAR,C;YAEI,IAAI,CAAE,GAAE,oBAAR,C;cAGI,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GA
AE,IAAI,I;;cAKzB,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,CAAE,GAAG,CAAE,IAAG,CAAE,GAAE,CAAP,C
AAZ,C;;;YAKnB,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,IAAI,KAAK,CAAC,CAAE,GAAE,CAAE,GAAE,CA
AT,CAAd,C;;eAGlB,IAAI,CAAE,IAAG,CAAC,cAAV,C;UAED,OAAO,CAAC,KAAK,CAAC,CAAC,CAAF,C;;
UAKb,IAAI,SAAS,C;UACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,IAAG,cAAnB,C;YAEI,IAAI,KAAK,CAAE,G
AAE,CAAE,GAAE,C;YAEjB,MAAO,IAAG,EAAG,GAAE,C;;UAEnB,OAAO,M;;O;MAGf,IAAI,MAAO,GAAE,
K;;IAEjB,IAAI,OAAO,IAAI,MAAO,KAAI,WAA1B,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,CAAE,GAAE,
CAAR,C;UAEI,OAAO,G;eAEN,IAAI,CAAE,GAAE,CAAE,IAAG,cAAb,C;UAED,IAAI,CAAE,GAAE,oBAAR,C
;YAGI,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IAAI,I;;YAIzB,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,I
AAI,KAAK,CAAC,CAAE,GAAE,CAAE,GAAE,CAAT,CAAd,C;;;UAKnB,IAAI,IAAI,IAAI,KAAK,CAAC,CAA
E,GAAE,CAAL,C;UAEjB,IAAI,SAAS,C;UACb,IAAI,CAAE,IAAG,cAAT,C;YAEI,IAAI,KAAK,CAAE,GAAE,C
AAE,GAAE,C;YAEjB,MAAO,IAAG,EAAG,GAAE,E;;UAGnB,OAAO,IAAI,KAAK,CAAC,CAAD,CAAI,GAAE
,M;;O;;IAIlC,IAAI,OAAO,IAAI,MAAO,KAAI,WAA1B,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,IAAI,IAAI,
CAAC,CAAD,CAAI,GAAE,cAAlB,C;UACI,IAAI,SAAS,C;UACb,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,
cAAlB,C;YACI,MAAO,IAAI,CAAE,GAAE,CAAE,GAAE,CAAG,GAAE,C;;UAE5B,OAAO,M;;QAEX,OAAO,I
AAI,IAAI,CAAS,CAAP,CAAE,GAAE,CAAG,KAAG,CAAE,GAAE,CAAP,CAAT,CAAoB,GAAE,C;O;;IAG7C,I
AAI,OAAO,IAAI,MAAO,KAAI,WAA1B,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,IAAI,IAAI,CAAC,CAAD,
CAAI,GAAE,cAAlB,C;UACI,IAAI,KAAK,CAAE,GAAE,C;UACb,IAAI,KAAK,EAAG,GAAE,C;UACd,IAAI,K
AAK,EAAG,GAAE,C;UAEd,OAAQ,CAAC,EAAG,GAAE,CAAE,GAAE,EAAG,GAAE,CAAE,GAAE,EAAG,G
AAE,CAAE,GAAE,C;;QAExC,OAAO,IAAI,IAAI,CAAC,CAAE,GAAE,CAAL,C;O;;IAGvB,IAAI,OAAO,IAAI,
MAAO,KAAI,WAA1B,C;MACI,IAAI,MAAO,GAAE,a;QACT,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,cA
AlB,C;UACI,IAAI,KAAK,CAAE,GAAE,C;UACb,IAAI,KAAK,EAAG,GAAE,C;UACd,IAAI,KAAK,EAAG,GA
AE,C;UAEd,OAAQ,EAAG,GAAE,EAAG,GAAE,EAAG,GAAE,CAAE,GAAE,EAAG,GAAE,CAAE,GAAE,C;;Q
AExC,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,C;O;;GAG/B,G;EACF,IAAI,OAAO,IAAI,MAAO,KAAI,W
AA1B,C;IACI,IAAI,MAAO,GAAE,Y;MACT,IAAI,IAAI,C;MACR,IAAI,SAAS,SAAS,O;MAEtB,KAAK,IAAI,IA
AI,CAAb,EAAgB,CAAE,GAAE,MAApB,EAAA4B,CAAC,EAA7B,C;QACI,IAAI,SAAS,CAAC,CAAD,CAAI,KA
AI,QAAS,IAAG,SAAS,CAAC,CAAD,CAAI,KAAI,CAAC,QAAnD,C;UACI,OAAO,Q;;QAEX,CAAE,IAAG,SA
AS,CAAC,CAAD,C;;MAEjC,OAAO,IAAI,KAAK,CAAC,CAAD,C;K;;EAGx,B,IAAI,OAAO,IAAI,MAAO,KAAI,
WAA1B,C;IACI,IAAI,MAAO,GAAE,a;MACT,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IAAI,O;K;;EAGjC,
IAAI,OAAO,IAAI,KAAM,KAAI,WAAzB,C;IACI,IAAI,KAAM,GAAE,a;M
ACR,OAAO,IAAI,IAAI,CAAC,CAAD,CAAI,GAAE,IAAI,M;K;;EAGjC,IAAI,OAAO,IAAI,MAAO,KAAI,WAA
1B,C;IACI,IAAI,MAAO,GAAG,oB;MACV,OAAO,a;QACH,IAAI,SAAS,CAAE,KAAI,C;QACnB,IAAI,MAAO,
KAAI,CAAAf,C;UACI,OAAO,E;;QAEX,OAAO,EAAG,IAAG,IAAG,GAAG,CAAC,MAAD,CAAS,GAAE,GAAI,
GAAE,CAAAvB,CAAA0B,GAAE,C;O;KAE5C,CAAC,IAAI,IAAL,EAAW,OAAAW,OAA
Q,KAAI,WAAlC,C;IACI,OAAO,OAAAGAAE,a;MACjB,OAAO,CAAE,IAAG,IAAK,IAAG,CAAC,UAAW,IA
AG,IAAK,IAAG,CAAC,UAAU,KAAI,SAAS,UAAU,U;K;;EAIhG,IAAI,OAAO,KAAK,UAAU,KAAM,K
AAI,WAApC,C;IAEI,MAAM,eAAAe,CAAC,KAAK,KAAK,UAAN,EAAkB,EAAAkB,MAAAlB,EAA0B,QAACp
C,iB;MAGH,IAAI,IA
AK,IAAG,IAAZ,C;QACI,MAAM,IAAI,SAAJ,CAAc,6BAAd,C;;MAGV,IAAI,IAAI,MAAM,CAAC,IAAD,C;MAG
d,IAAI,MAAM,CAAC,OAAQ,KAAI,C;MAGvB,IAAI,QAAQ,SAAS,CAAAb,C;MACrB,IAAI,gBAAAgB,B,
KAAM,IAAG,C;MAG7B,IAAI,IAAI,IAAI,aAAAc,GAAE,CAAAlB,E,GACAlB,IAAI,IAAI,CAAC,GAAI,GACAlB,
IAAI,IAAI,CAAC,GAAAchB,IAAI,IAAI,CAAC,GAAAlB,E,GAAqB,IAAG,C;MAG/C,IAAI,aAAAa,WAAA
Y,GAAAE,CAAE,CAAE,GACAhB,IAAI,IAAI,CAAC,GAAI,GAAE,WAAP,EAAAoB,CAAApB,CAAAApB
AAd,C;MAGzB,OAAO,CAAE,GAAE,UAAX,C;QACI,CAAC,CAAC,CAAD,CAAI,GAAE,K;K;;EAGCP,CAAC,
CAAE,GAAE,UAAX,C;QAAAb,IAAI,CAAC,CAAD,CAAI,IAAG,CAAC,CAAE,GAAE,M;K;;EAGjC,IAAI,OAAO
,IAAI,MAAO,KAAI,WAA1B,C;IACI,IAAI,MAAO,GAAE,a;MACb,OAAO,a;QACH,IAAI,IAAI,IAAI,IAAI,CAA
C,CAAD,CAAI,GAAE,E;QAClB,IAAI,CAAE,GAAE,CAAR,C;UAAK;IAEnB,qC;IACI,IAAI,IAAI,OAAO,GAA
I,KAAI,WAAnB,C;IACI,IAAI,O;;MAEd,KAAM,GAAE,a;MACR,IAAI,IAAI,IAAI,IAAI,CAAC,CAAD,CAAI,GAA
E,CAAb,C;QACI,OAAO,C;;MAEX,OAAO,CAAE,IAAG,CAAE,GAAE,CAAE,GAAE,C;K;;EAGjC,IAAI,OAAO,
IAAI,OAAO,GAAI,KAAI,WAA1B,C;IACI,IAAI,OAAO,GAAE,IAAI,O;;MAEd,KAAM,GAAE,a;MACR,OAAO
,a;QACH,IAAI,SAAS,CAAE,KAAI,C;QACnB,IAAI,MAAO,KAAI,CAAAf,C;UACI,OAAO,E;;QAEX,OAAO,EA
AG,IAAG,IAAG,GAAG,CAAC,MAAD,CAAS,GAAE,GAAI,GAAE,CAAA;K;;

AI,IAAI,CAAC,KAAD,EAAQ,eAAe,CAAC,GAAD,EAAM,IAAI,OAAV,CAAvB,C;MACd,OAAO,IAAI,IAAI,Y AAR,CAAqB,IAAI,SAAS,CAAC,KAAD,EAAQ,GAAR,CAAlC,C;K;IAGX,IAAI,SAAS,CAAC,SAAD,EAAY,U AAZ,EAAwB,WAAxB,EAAqC,UAArC,EAAiD,YAAjD,EAA+D,YAA/D,C;IACb,KAAK,IAAI,IAAI,CAAb,EAA gB,CAAE,GAAE,MAAM,OAA1B,EAAmC,EAAE,CAArC,C;MACI,IAAI,aAAa,MAAM,CAAC,CAAD,C;MACv B,IAAI,OAAO,UAAU,UAAU,KAAM,KAAI,WAAzC,C;QACI,MAAM,eAAe,CAAC,UAAU,UAAX,EAAuB,MA AvB,EAA+B,QACzC,KAAK,UAAU,KAD0B,CAA/B,C;;MAIzB,IAAI,OAAO,UAAU,UAAU,MAAO,KAAI,WA A1C,C;QACI,MAAM,eAAe,CAAC,UAAU,UAAX,EAAuB,OAAvB,EAAgC,QAC1C,eAD0C,CAAhC,C;;;;MAQJ, CAApB,Y;OAAc,MAAM,CAAC,IAAD,EAAO,IAAI,UAAJ,CAAe,CAAf,CAAP,E;;MAErB,IAAI,QAAQ,QAAQ, UAAU,M;MAC9B,MAAM,eAAe,CAAC,QAAQ,UAAT,EAAqB,OAAArB,EAA8B,QACxC,uB;QACH,OAAO,KA AK,KAAK,CAAC,IAAD,EAAO,IAAP,EAAa,EAAAa,EAAAE,MAAM,KAAK,CAAC,KAAD,CAA1B,C;OAF0B,CAA9B,C ;;IASzB,KAAK,IAAI,IAAI,CAAb,EAAgB,CAAE,GAAE,MAAM,OAA1B,EAAmC,EAAE,CAArC,C;MACI,IAAI ,aAAa,MAAM,CAAC,CAAD,C;MACvB,IAAI,OAAO,UAAU,UAAU,IAAK,KAAI,WAAxC,C;QACI,MAAM,eA Ae,CAAC,UAAU,UAAX,EAAuB,KAAvB,EAA8B,QACxC,0B;QACH,OAAO,EAAE,MAAM,KAAK,CAAC,IAA D,CAAM,IAAI,CAAC,QAAD,EAAAW,IAAX,C;SAFa,CAA9B,C;;;IAU7B,IAAI,uBAAuB,gB;MACvB,IAAI,CAA E,GAAE,CAAR,C;QAAW,OAAO,E;MAClB,IAAI,CAAAE,GAAA,CAAR,C;QAAW,OAAO,C;MAElB,IAAI,CAA E,KAAI,CAAV,C;QACI,IAAI,CAAAE,KAAA,CAAV,C;UAAaA,OAAO,C;QAEpB,IAAI,KAAK,CAAAE,GAAA,CAAC,QA AO,EAAG,KAAI,CAAAE,GAAA,E;K;IAGzC,OAAO,CAAE,KAAI,CAAAE,GAAA,CAAE,KAAI,CAAAE,GAAA,CAAF,GAAO, C;;MAG7C,OAAO,CAAE,KAAI,CAAAE,GAAA,CAAE,KAAI,CAAAE,GAAA,CAAF,GAAM,CAAjB,GAAsB,E;K; IAGzC,KAAK,IAAI,IAAI,CAAb,EAAgB,CAAE,GAAE,MAAM,OAA1B,EAAmC,EAAE,CAArC,C;MACI,IAAI, aAAa,MAAM,CAAC,CAAD,C;MACvB,IAAI,OAAO,UAAU,UAAU,KAAM,KAAI,WAAzC,C;QACI,MAAM,eA Ae,CAAC,UAAU,UAAX,EAAuB,MAAvB,EAA+B,QACzC,2B;QACH,OAAO,KAAK,UAAU,KAAK,KAAK,CA AC,IAAD,EAAO,eAAgB,IAAG,oBAA1B,C;SAFY,CAA/B,C;;;SAFY,CAA/B,C;;IAU7B,IAAI,qBAAqB,MAA M,KAAAM,GAAAE,QACH, OADG,aAEC,WAFD,UAGF,QAHE,C;EAMd,MAAM,WAAY,GAAE,2C;IAChB,IAAI,qBAAqB,MAAM,yBAAAy B,CAAC,KAAD,EAAQ,YAAR,C;IACxD,IAAI,kBAAmB,IAAG,IAAK,IAAG,kBAAkB,IAAK,IAAG,IAA5D,C; MACI,OAAO,kBAAkB,IAAK,KAAK,CAAC,UAAD,C;;IAGtC,kBAAmB,GAAAE,MAAM,yBAAAyB,CAAC,UAAD ,EAAa,YAAb,C;IACpD,IAAI,kBAAmB,IAAG,IAAK,IAAG,OAAQ,IAAG,kBAA7C,C;MACI,OAAO,UAAU,CA AC,YAAD,C;;IAGrB,OAAO,MAAM,WAAW,CAAC,UAAD,EAAa,MAAM,eAAe,CAAC,KAAD,CAAlC,EAA2 C,YAA3C,C;G;EAG5B,MAAM,WAAY,GAAEkD;IAChB,IAAI,qBAAqB,MAAM,yBAAAyB,CAAC,UAAD,EAAa ,YAAb,C;IACxD,IAAI,kBAAmB,IAAG,IAAK,IAAG,kBAAkB,IAAK,IAAG,IAA5D,C;MACI,kBAAkB,IAAK, KAAK,CAAC,UAAD,EAAa,KAAb,C;MACA,M;;IAGJ,kBAAmB,GAAAE,MAAM,yBAAAyB,CAAC,UAAD,EAAa, YAAb,C;IACpD,IAAI,kBAAmB,IAAG,IAAK,IAAG,OAAQ,IAAG,kBAA7C,C;MACI,UAAU,CAAC,YAAD,CA Ae,GAAAAE,K;MAC3B,M;;IAGJ,MAAM,WAAW,CAAC,UAAD,EAAa,MAAM,eAAe,CAAC,KAAD,CAAlC,EAA 2C,YAA3C,EAAyD,KAAAzD,C;G;EAGrB,iD;IACI,IAAI,IAAK,KAAI,KAAb,C;MAAoB,OAAO,I;IAE3B,IAAI,W AAW,IAAI,W;IACnB,IAAI,QAAS,IAAG,IAAhB,C;MACI,IAAI,aAAa,QAAQ,W;MACzB,KAAK,IAAI,IAAI,CA Ab,EAAgB,CAAE,GAAE,MAAM,OAA1B,EAAuC,OAA9B,EAAuC,CAAC,EAAxC,C;QACI,IAAI,0BAA0B,CAA C,UAAU,CAAX,EAAc,QACd,CAAAX,GAAA,CAAAiB,EAAAgB,KAAhB,C;UACI,UAAU,OAAO,I;;;;;IAKnB,IAAKn B,IAAI,iBAAiB,IAAI,UAAW,IAAG,IAAK,GAAG,IAAK,G;AAAE,cAAc,cA Ac,YAAhB,GAAA+B,GAAA,I;IAC tF,IAAI,mBAAmB,cAAe,IAAG,IAAK,GAAE,cA Ac,YAAhB,GAAA+B,GAAA,I;IAC7E,OAAO,gBAAiB,IAAG,IAAK,IAAG,IAAK,IAAG,0BAA0B,CAAC,gBAAD, EAAmB,KAAAnB,C;G; G;EASjE,MAAM,OAAAQ,GAAE,yB;IACZ,IAAI,KAAAM,KAAAI,MAAd;C;MACI,QAAQ,OAAO,MAAAf,C;aACS,Q;U aACS,Q;SaACS,U;UACD,OAAO,I;;UAEP,OAAO,MAAO,YAAW,M;;;IAIrC,IAAI,MAAO,IAAG,IAAK,IAAG,IAA K,IAAG,KAAAM,IAAAA,GAAA,I;IAC9B,IAAKA IAAG,KAAAM,IAAG,IAAK,IAAG,IAAAA,K;G;;IAGX,IAAI,OAAO ,KAAAM,I;;IAGX,IAAI,QAAAQ,MAAAM,eAAe,CAAC,KAAAD,C;IACjC,IAAI,cAAAc,KAAAM,IAAAG,IAAAK,GAAAE ,KAAAK,YAAAP,C;IACtD,IAAI,WAAAY,IAAAG,IAAAK,IAAAG,YAAAa,IAAAG,WAA3C,C;MACI,IAAAC1B,IAAAQ,KAA AM,MAAAM,KAAAK,OAAjC,C;QACI,OAAAAO,MAAO,MAAAK,YAAA,K;;;;IAI1B,IAAAI1B,IAAI,gBAAgB,I;IAA E,KAAAAOAAA,w;IAAG,IAAAAzB,IAAAAIAAAB;G;;;IAGrC,OAAAANW,IAAAQ,KAAAM,I;;;G;EAGX,iD;IACI,IAAI,WAA Y,IAAG,IAAK,IAAG,IAAK,IAAG,YAAa,IAAG,IAA3C,C;MACI,OAAO,M;;IAGX,IAAI,aAAa,KAAAM,K;IAC1B,IA AI,IAAAANM,IAAI,gBAAAM,gB;B,KAAK,W;IAAG,z;IAAG,IAAAANzB,IAAAAAAAc,IAAA,IAAA;;IAGrC,OAAAANW, IAAAQ,KAAAM,I;;;G;

AS,IAAG,CAAE,YAAW,MAAM,K;G;EAGtD,MAAM,OAAQ,GAAE,iB;IACZ,OAAO,KAAM,YAAW,MAAM,
U;G;EAGlC,MAAM,aAAc,GAAE,iB;IAClB,IAAI,OAAO,OAAO,K;IAElB,OAAO,IAAK,KAAI,QAAS,IAClB,IA
AK,KAAI,SAAU,IACnB,MAAM,SAAS,CAAC,KAAD,CAAQ,IACvB,MAAM,OAAO,CAAC,KAAD,EAAQ,MA
AM,OAAO,WAArB,C;G;EAGxB,MAAM,eAAgB,GAAE,iB;IACpB,OAAO,OAAO,KAAM,KAAI,QAAS,IAAG,
MAAM,OAAO,CAAC,KAAD,EAAQ,MAAM,OAAO,aAArB,C;G;;;;;;;;;;;aCnDV,gB;;;;ICrE3C,gB;MAkBI,4B;MA
jBA,aAA6C,E;MAC7C,gBAAgD,C;K;4EAG5C,Y;MAAQ,iB;K;+EAGR,Y;MAAQ,oB;K;qCAEZ,iB;MAAyC,OA
AQ,0BAAR,YAAQ,EAAU,KAAM,QAAhB,C;K;4BAEjD,iB;MAAmC,gBAAS,K;K;8BAE5C,Y;MAA+B,OAAnC
,MAAmC,kBAAA8B,IAA9B,C;K;8BAE/B,Y;MAA0B,gB;K;IAE1B,0B;MAAA,8B;K;;;IAAA,sC;MAAA,qC;QAA
A,oB;;MAAA,8B;K;;IDfJ,mC;MAC4C,oBAAa,MAAS,IAAT,CAAb,EAA6B,SAA7B,C;K;gEAE5C,yB;MAAA,m
B;MAAA,6B;QAC2D,YAAa,QAAS,IAAT,C;QAIvD,Q;QAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAA
U,CAAV,iB;UACI,MAAM,CAAN,IALgF,IAKrE,CAAK,CAAL,C;;;QALwC,OAOhD,K;O;KARX,C;gEAGA,uB;
MAEiB,Q;MAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;MAAb,aAAU,CAAV,iB;QACI,MAAM,CAAN,IAAW,
KAAK,CAAL,C;;MAEf,OAAO,K;K;IAGX,kC;MAIiB,IAAN,I;MAFP,aAASB,MAAe,IAAf,C;MACtB,gBAAkB,c;
MAEd,IADS,IACT,mBADS,IACT,EAAM,IAAN,E;QAAc,oBAAa,MAAb,EAAqB,KAArB,C;WACd,WAFS,IAET
,S;QAAS,a;;QAZA,U;QAAA,SAaqB,MAbf,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,mB;UAakC,MAZ9B,CA
AM,CAAN,IAYsC,IAZ3B,CAAK,CAAL,C;;QAYH,OAAsB,M;;MAHlC,W;K;2EAOJ,yB;MAAA,iC;MAAA,6B;
QACoF,YAAa,aAAa,IAAb,EAAmB,EAAmB,KAAAnB,C;QAlBhF,Q;QAAA,OAAA,KAAM,OAAN,GAAa,
AAU,CAAV,iB;UACI,MAAM,CAAN,IAAW,KAAK,CAAL,C;;QAPgF,OAOhP,K;O;KAPX,C;;;QAAA,p
;;MAKiB,IAAN,I;MAFP,aAAa,IAAb,EAAmB,WAAa,CAAAD,IAAC,C;MACb,gBAAkB,W;MAEd,IADS,IADS,IA
CT,EAAM,IAAN,YADS,IACT,EAAAY,KAAAZ,E;QAAqB,a;;QA1BZ,U;QAAA,SA2BkB,MA3BZ,OAAN,GAAa,C
AAb,I;QAAb,aAAU,CAAV,mB;UA2BkC,UA1B9B,CAAM,CAAN,IA0BsC,IA1B3B,CAAK,CAAL,C;;QA0BH,
OAAmB,M;;MAHlC,W;K;qEAOJ,yB;MAAA,8B;MAAA,gC;QACqF,YAAa,aAAa,IAAb,EAAmB,KAAAnB,C;Q
A3Bk,Q;QAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,MAAM,CAAN,IAAW,
KAAK,CAAL,C;;QAPgF,OAOhP,K;O;KAPX,C;IAWA,+B;MAIiB,IAAN,I;MAFP,aAAAsB,MAAAY,IAAAZ,C;
MACtB,gBAAAAkB,W;MAEd,IADS,IADS,IACT,mBADS,IACT,EAAM,IAAN,E;QAAc,oBAAa,MAAb,K;WACd,WA
Cd,WAFS,IAET,S;QAAS,a;;QA3DA,U;QAAA,SA4DkB,MA5DZ,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,mB;
UA4DkC,UA3D9B,CAAM,CAAN,IA2DsC,IA3D3B,CAAK,CAAL,C;;QA2DH,OAAmB,M;;MAHlC,W;K;2EAOJ
,yB;MAAA,2B;MAAA,6B;QAC2F,YAAa,aAAa,IAAb,EAAmB,GAAnB,EAAwB,WAAa,CAAAD,IAAC,C;Q
A7D3G,Q;QAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,MAAM,CAAN,IAAW,KA
AK,CAAL,C;;QAPgF,OAOhP,K;O;KAPX,C;IAWA,gC;MAKiB,IAAN,I;MAFP,aAAAsB,MAAAY,IAAAZ,C;MAC
tB,gBAAAAkB,W;MAEd,IADS,IADS,IACT,mBADS,IACT,EAAM,IAAN,E;QAAc,oBAAa,MAAb,K;WACd,WAFS,
IAET,S;QAAS,a;;QA7FA,U;QAAA,SA8FkB,MA9FZ,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,mB;UA8FkC,UA
7F9B,CAAM,CAAN,IA6FsC,IA7F3B,CAAK,CAAL,C;;QA6FH,OAAmB,M;;MAHlC,W;K;qEAOJ,yB;MAAA,8B;
MAAA,2B;MAAA,mC;MAAA,6B;QAC2F,YAAa,mBAAmB,KAAAnB,C;Q
AhGk,Q;QAAA,OAAA,KAAM,OAAN,GAAa,CAAb,I;QAAb,aAAU,CAAV,iB;UACI,MAAM,CAAN,IAAW,
KAAK,CAAL,C;;QAPgF,OAOhP,K;O;KAPX,C;;;IAeA,iC;MAAA,qC;QAAA,oB;;MAAA,8B;K;;IA9B1B,2C;M
AAA,0C;QAAA,yB;;MAAA,mC;K;;IAiCA,iC;MAAiC,oB;K;;;IAAA,6C;MAAA,4C;QAAA,2B;;MAAA,qC;K;;;IAEA,
8C;MAAA,6C;QAAA,4B;;MAAA,sC;K;;;IAAA,8C;MAAA,6C;QAAA,4B;;MAAA,sC;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;aCkkuBoB,gB;;;;cC/ntB0C,mB;;;gBAyEvC,

yB;eAAyB,wB;;;uBAgBzB,gC;sBAAwB,+B;mCA4JjC,qB;mCA5ImC,qB;;kBAQ1B,2B;iBAA0B,0B;;;;;;eC3YgB,
wB;sBCoBA,sB;iBCnBA,0B;;;aC5P8B,e;;;;;;;;;;;;;;;gCClDhD,yC;+BCVA,uC;+BCAA,sC;;gCCyJ/B,+B;+BAIW,sC
;gCCqwCc,+B;0BAHvB,kC;uBAr6BO,gC;yBA8WD,iC;0BACA,mC;yBA4JA,iC;gCAmZP,oC;+BAbc,oC;+BAEC
,+B;yBAEQ,kC;;gBCr0C6C,yB;;;
;;;IC/ErF,kD;MAMuF,wC;K;IANvF,4CAOI,
Y;MAAuC,8B;K;IAP3C,8E;ICGA,kD;MAQuF,wC;K;IARvF,4CASI,Y;MAAuC,8B;K;IAT3C,8E;0FbOA,qB;MA
QI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,
C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,
OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;
K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;0FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,O
AAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;
4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OA
AO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;0
FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAA
O,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4F
AGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,
UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;0FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAG
X,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UA
AI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,
qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAA
I,CAAJ,C;K;0FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB
;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,C
AAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;M
AQI,OAAO,UAAI,CAAJ,C;K;4FAGX,qB;MAQI,OAAO,UAAI,CAAJ,C;K;IAGX,sC;MAII,OAAO,mBAAQ,OAA
R,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,K
AAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAA
oB,C;K;IAG/B,wC;MAOI,OAAO,qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAOI,OAAO,qBAAQ,OAAR,KAAo
B,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAoB,C;K;IAG/B,wC;MAII,OAAO,qBAAQ,OAAR,KAAoB,C
;K;oGAkE/B,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ
,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAA
c,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;MA
AA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;
O;KAPjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAA
I,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,CA
AT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;MAAA,
8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,K
AAb,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAs
C,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;MAAA,8D;MAAA,iD;QAOI,OAAW,SA
AS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;sGAUA,yB;
MAAA,8D;MAAA,gC;MAAA,iD;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAA
tC,GAAsD,uBAAa,KAAb,E;O;KAPjE,C;oGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,
KAAV,C;O;KAPhB,C;qGAUA,yB;MAAA,qD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAP
hB,C;sGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;sGAUA,yB;
MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;sGAUA,yB;MAAA,sD;MAA
A,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;sGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OAA
Y,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;sGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,E
AAU,KAAV,C;O;KAPhB,C;sGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;
KAPhB,C;sGAUA,yB;MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;8EAUA

,gC;MAOW,sB;;QAybS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAzbH,SAybO,CAAU,OAAV,CAAJ,C;YAAwB
,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MA1bP,yB;K;gFAGJ,gC;MAOW,sB;;QAubS,Q;QAAhB,iD;UAAgB,
cAAhB,e;UAAsB,IAvbH,SAubO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;M
AxbP,yB;K;gFAGJ,gC;MAOW,sB;;QAqbS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IArbH,SAqbO,CAAU,OAA
V,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MAtbP,yB;K;gFAGJ,gC;MAOW,sB;;QAmbS,Q;
QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAnbH,SAmbO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;;Q
AC9C,qBAAO,I;;;MApbP,yB;K;gFAGJ,gC;MAOW,sB;;QAibS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAjbH,S
AibO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MAlbP,yB;K;gFAGJ,gC;MAO
W,sB;;QA+aS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IA/aH,SA+aO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,
O;YAAP,uB;;;QAC9C,qBAAO,I;;;MAhbP,yB;K;gFAGJ,gC;MAOW,sB;;QA6aS,Q;QAAhB,iD;UAAgB,cAAhB,e;
UAAsB,IA7aH,SA6aO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MA9aP,yB;K
;gFAGJ,gC;MAOW,sB;;QA2aS,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IA3aH,SA2aO,CAAU,OAAV,CAAJ,C;
YAAwB,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MA5aP,yB;K;gFAGJ,yB;MA4aA,oC;MAAA,gC;MA5aA,uC;
QAOW,sB;;UAyaS,Q;UAAhB,iD;YAAgB,cAAhB,0B;YAASb,IAzaH,SAyaO,CAAU,oBAAV,CAAJ,C;cAAwB,q
BAAO,O;cAAP,uB;;;UAC9C,qBAAO,I;;;QA1aP,yB;O;KAPJ,C;sFAUA,yB;MAw1CA,0D;MAAA,+C;MAx1CA,u
C;QAOW,qB;;UAu1CO,Q;UAAA,OAAa,SAAR,sBAAAQ,CAAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YAACV,cAAc
,UAAK,KAAL,C;YAACd,IAz1Cc,SAy1CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;;UAE5B,oBAA
O,I;;;QA31CP,wB;O;KAPJ,C;wFAUA,yB;MA21CA,0D;MAAA,+C;MA31CA,uC;QAOW,qB;;UA01CO,Q;UAAA
,OAAa,SAAR,sBAAAQ,CAAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YAACV,cAAc,UAAK,KAAL,C;YAACd,IA51Cc,
SA41CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;;UAE5B,oBAAO,I;;;QA91CP,wB;O;KAPJ,C;wF
AUA,yB;MA81CA,0D;MAAA,+C;MA91CA,uC;QAOW,qB;;UA61CO,Q;UAAA,OAAa,SAAR,sBAAAQ,CAAAb,W;
UAAd,OAAc,cAAd,C;YAAc,uB;YAACV,cAAc,UAAK,KAAL,C;YAACd,IA/1Cc,SA+1CV,CAAU,OAAV,CAAJ,C;
cAAwB,oBAAO,O;cAAP,sB;;;UAE5B,oBAAO,I;;;QAj2CP,wB;O;KAPJ,C;wFAUA,yB;MAi2CA,0D;MAAA,+C;
MAj2CA,uC;QAOW,qB;;UAg2CO,Q;UAAA,OAAa,SAAR,sBAAAQ,CAAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;Y
ACV,cAAc,UAAK,KAAL,C;YAACd,IAl2Cc,SAk2CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;;UAE
5B,oBAAO,I;;;QAp2CP,wB;O;KAPJ,C;wFAUA,yB;MAo2CA,0D;MAAA,+C;MAp2CA,uC;QAOW,qB;;UAm2C
O,Q;UAAA,OAAa,SAAR,sBAAAQ,CAAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YAA
Cd,IAr2Cc,SAq2CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;;UAE5B,oBAAO,I;;;QAw2CP,wB;O;
KAPJ,C;wFAUA,yB;MAu2CA,0D;MAAA,+C;MAv2CA,uC;QAOW,qB;;UAs2CO,Q;UAAA,OAAa,SAAR,sBAAAQ,
CAAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAAL,C;YAACd,IAx2Cc,SAw2CV,CAAU,OAA
V,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;;UAE5B,oBAAO,I;;;QA12CP,wB;O;KAPJ,C;wFAUA,yB;MA02CA,0D;
MAAA,+C;MA12CA,uC;QAOW,qB;;UAy2CO,Q;UAAA,OAAa,SAAR,sBAAAQ,CAAAb,W;UAAd,OAAc,cAAd,C;Y
AAc,uB;YACV,cAAc,UAAK,KAAL,C;YAACd,IA32Cc,SA22CV,CAAU,OAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP
,sB;;;UAE5B,oBAAO,I;;;QAh3CP,wB;O;KAPJ,C;wFAUA,yB;MAg3CA,0D;MAAA,+C;MAh3CA,uC;QAOW,qB;
;UA+2CO,Q;UAAA,OAAa,SAAR,sBAAAQ,CAAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,UAAK,KAA
L,C;YAACd,IAj3Cc,SAi3CV,CAAU,oBAAV,CAAJ,C;cAAwB,oBAAO,O;cAAP,sB;;;UAE5B,oBAAO,I;;;QAn3CP,
wB;O;KAPJ,C;IAUA,0B;MAKI,IA4uNO,qBAAQ,CA5uNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UA
AK,CAAL,C;K;IAGX,4B;MAKI,IA0uNO,qBAAQ,CA1uNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UA
AK,CAAL,C;K;IAGX,4B;MAKI,IAwuNO,qBAAQ,CAxuNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,
CAAL,C;K;IAGX,4B;MAKI,IAsuNO,qBAAQ,CAtuNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UA
AK,CAAL,C;K;IAGX,4B;MAKI,IAouNO,qBAAQ,CApuNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO
,UAAK,CAAL,C;K;IAGX,4B;MAKI,IAkuNO,qBAAQ,CAluNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,O
AAO,UAAK,CAAL,C;K;IAGX,4B;MAKI,IAguNO,qBAAQ,CAhuNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MAC
V,OAAO,UAAK,CAAL,C;K;IAGX,4B;MAKI,IA8tNO,qBAAQ,CA9tNf,C;QACI,MAAM,2BAAuB,iBAAvB,C;M
ACV,OAAO,UAAK,CAAL,C;K;IAGX,4B;MAKI,IA4tNO,qBAAQ,CA5tNf,C;QACI,MAAM,2BAAuB,iBAAvB,

C;MACV,OAAO,UAAK,CAAL,C;K;kFAGX,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAgB,SAAhB,gB
;UAAgB,cAAA,SAAhB,M;UAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,
mDAAvB,C;O;KANV,C;kFASA,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cA
AA,SAAhB,M;UAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;
O;KANV,C;mFASA,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,
M;UAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;
mFASA,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAsB,I
AAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;mFASA,yB;
MAAA,iE;MAAA,uC;QAKoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAsB,IAAI,UAAU,
OAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;mFASA,yB;MAAA,iE;M
AAA,uC;QAKoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAsB,IAAI,UAAU,OAAV,CAAJ
,C;YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;mFASA,yB;MAAA,iE;MAAA,uC;QA
KoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,
OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;mFASA,yB;MAAA,iE;MAAA,uC;QAKoB,Q;QAA
hB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAsB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;Q
ACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;mFASA,yB;MAAA,oC;MAAA,gC;MAAA,iE;MAAA,uC;QAK
oB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;
YAAwB,OAAO,O;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KANV,C;kGASA,yB;MAAA,iE;MAAA,uC;QASW
,Q;QAAA,+B;;UAYS,U;UAAhB,uD;YAAgB,cAAhB,iB;YACI,aAbwB,SAaX,CAAU,OAAV,C;YACb,IAAI,cAAJ
,C;cACI,8BAAO,M;cAAP,gC;;;UAGR,8BAAO,I;;;QAlBA,kC;QAAA,iB;UAAmC,MAAM,gCAAuB,8DAAvB,C;;
QAAhD,OAAO,I;O;KATX,C;8GAYA,gC;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q
ACI,aAAAa,UAAU,OAAV,C;QACb,IAAI,cAAJ,C;UACI,OAAO,M;;;MAGf,OAAO,I;K;IAGX,gC;MAII,OAoiNO,
qBAAAQ,CApiNR,GAAe,IAAf,GAAyB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OAqiNO,qBAAAQ,CAriNR,GAAe,IA
Af,GAAyB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OAsiNO,qBAAAQ,CAtiNR,GAAe,IAAf,GAAyB,UAAK,CAAL,C
;K;IAGpC,kC;MAII,OAuiNO,qBAAAQ,CAviNR,GAAe,IAAf,GAAyB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OAwi
NO,qBAAAQ,CAxiNR,GAAe,IAAf,GAAyB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OAyiNO,qBAAAQ,CAziNR,GAA
e,IAAf,GAAyB,UAAK,CAAL,C;K;IAGpC,kC;MAII,OA0iNO,qBAAAQ,CA1iNR,GAAe,IAAf,GAAyB,UAAK,CA
AL,C;K;IAGpC,kC;MAII,OA2iNO,qBAAAQ,CA3iNR,GAAe,IAAf,GAAyB,UAAK,CAAL,C;K;IAGpC,kC;MAII,O
A4iNO,qBAAAQ,CA5iNR,GAAe,IAAf,GAAyB,UAAK,CAAL,C;K;I8FAGpC,gC;MAIoB,Q;MAAhB,wBAAgB,SA
AhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,MAACrD,OAAO,I;K
;8FAGX,gC;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,C
AAJ,C;UAAwB,OAAO,O;;MACrD,MAACrD,OAAO,I;K;+FAGX,gC;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cA
AA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,MAACrD,OAAO,I;K;+FAGX,gC;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OA
AO,O;;MACrD,MAACrD,OAAO,I;K;+FAGX,gC;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAA
sB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,MAACrD,OAAO,I;K;+FAGX,gC;MAAhB,wBAAg
B,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,MAACrD,OAA
O,I;K;+FAGX,gC;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OA
AV,CAAJ,C;UAAwB,OAAO,O;;MACrD,MAACrD,OAAO,I;K;+FAGX,gC;MAAhB,wBAAgB,SAAhB,gB;QAA
gB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,MAACrD,OAAO,I;K;+FAGX,yB;
MAAA,oC;MAAA,gC;MAAA,uC;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;U
AAsB,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,MAACrD,OAAO,I;O;KALX,C;wFAQA,yB;MAAA,8D;M
AAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,
C;O;KALjE,C;0FAQA,yB;MAAA,8D;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UA
AI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;MAAA,8D;MAAA,iD;QAKI,OAAW,SAAS,C
AAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;MAA
A,8D;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GA

AsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;MAAA,8D;MAAA,iD;QAKI,OAAW,
SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KALjE,C;0FAQA,y
B;MAAA,8D;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAs
D,aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;MAAA,8D;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBA
A3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KALjE,C;0FAQA,yB;MAAA,8D;MAAA,gC;MAA
A,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,uBAAa,KAAb,E;
O;KALjE,C;IAQA,qC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD
,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IA
GjE,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;
MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,
OAAW,SAAS,CAAT,IAAc,SAAS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,
SAAS,CAAT,IAAc,SAAS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,
CAAT,IAAc,SAAS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAAT,I
AAc,SAAS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SA
AS,0BAA3B,GAAsC,UAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,qC;MAII,IAAI,eAAJ,C;QACI,wD;UACI,IAAI,UA
AK,KAAL,SAAJ,C;YACI,OAAO,K;;;;QAIf,8D;UACI,IAAI,gBAAW,UAAK,OAAL,CAAX,CAAJ,C;YACI,OAA
O,O;;;;MAInB,OAAO,E;K;IAGX,uC;MAII,wD;QACI,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;;M
AGf,OAAO,E;K;IAGX,uC;MAII,wD;QACI,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;;MAGf,OAA
O,E;K;IAGX,uC;MAII,wD;QACI,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;IAG
X,uC;MAII,wD;QACI,IAAI,gBAAW,UAAK,KAAL,CAAX,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;IAGX,
uC;MAMI,wD;QACI,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;IAGX,uC;MAM
I,wD;QACI,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;IAGX,uC;MAII,wD;QACI
,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;IAGX,uC;MAII,wD;QACI,IAAI,YAA
W,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;8FAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK
,KAAL,CAAV,CAAJ,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,K
AAL,CAAV,CAAJ,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KA
AL,CAAV,CAAJ,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAA
L,CAAV,CAAJ,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,
CAAV,CAAJ,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,C
AAV,CAAJ,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;gGAGX,gC;MAII,wD;QACI,IAAI,UAAU,UAAK,KAAL,CA
AV,CAAJ,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;gGAGX,yB;MAAA,oC;MAAA,uC;QAII,wD;QUACI,IAAI,UAAU
,sBAAK,KAAL,EAAV,CAAJ,C;YACI,OAAO,K;;;QAGf,OAAO,E;O;KATX,C;4FAYA,yB;MAAA,0D;MAAA,+
C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,U
AAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO,K;;;QAGf,OAAO,E;O;KATX,C;8FAYA,0D;MAAA,0D;MAA
A,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IA
AI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO,K;;;QAGf,OAAO,E;O;KATX,C;8FAYA,0D;MAAA,0D;
MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UAC
V,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO,K;;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MAAA,
0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;
UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO,K;;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;MA
AA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,u
B;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO,K;;;QAGf,OAAO,E;O;KATX,C;8FAYA,yB;
MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UA
Ac,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO,K;;;QAGf,OAAO,E;O;KATX,C;8FA
YA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,CAAR,W;QAAd,OAAc,cAAd

,C;UAAc,uB;UACV,IAAI,UAAU,UAAK,KAAL,CAAV,CAAJ,C;YACI,OAAO,K;;;QAGf,OAAO,E;O;KATX,C;8
FAYA,yB;MAAA,0D;MAAA,+C;MAAA,oC;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR,sBAAQ,CAAR,W;QA
Ad,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,sBAAK,KAAL,EAAV,CAAJ,C;YACI,OAAO,K;;;QAGf,OAA
O,E;O;KATX,C;IAYA,yB;MAQI,IAg7LO,qBAAQ,CAh7Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO
,UAAK,wBAAL,C;K;IAGX,2B;MAQI,IA26LO,qBAAQ,CA36Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,
OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IAs6LO,qBAAQ,CAt6Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MA
CV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IAi6LO,qBAAQ,CAj6Lf,C;QACI,MAAM,2BAAuB,iBAAvB,C;
MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IA45LO,qBAAQ,CA55Lf,C;QACI,MAAM,2BAAuB,iBAA
vB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IAu5LO,qBAAQ,CAv5Lf,C;QACI,MAAM,2BAAuB,i
BAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IAk5LO,qBAAQ,CAl5Lf,C;QACI,MAAM,2BA
AuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IA64LO,qBAAQ,CA74Lf,C;QACI,MAAM
,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;IAGX,2B;MAQI,IAw4LO,qBAAQ,CAx4Lf,C;QACI,M
AAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAK,0BAAL,C;K;gFAGX,yB;MAAA,0D;MAAA,+C;MAAA,iE;M
AAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UAC
V,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;;QAEnC,MAAM,gCAAuB,mD
AAvB,C;O;KAZV,C;gFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,Y
AAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAA
U,OAAV,CAAJ,C;YAAwB,OAAO,O;;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;
MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,
cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;;QAEn
C,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;
QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YA
AwB,OAAO,O;;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;
MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UA
CV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;;QAEnC,MAAM,gCAAuB,m
DAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,
YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UA
AU,OAAV,CAAJ,C;YAAwB,OAAO,O;;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0
D;MAAA,+C;MAAA,iE;MAAA,uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAA
c,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;;QA
EnC,MAAM,gCAAuB,mDAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,0D;MAAA,+C;MAAA,oC;MAAA,iE;MAAA,
uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAA
c,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,oBAAV,CAAJ,C;YAAwB,OAAO,O;;;QAEnC,MAAM,gCAAuB,mDAAvB
,C;O;KAZV,C;IAeA,yC;MAKsB,UAAMA,M;MAPlB,IAAI,eAAJ,C;QACkB,OAAQ,WAAR,sBAAQ,CAAR,W;QA
Ad,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAK,KAAL,SAAJ,C;YACI,OAAO,K;;;;QAID,SAAQ,WAAR,sBAA
Q,CAAR,W;QAAd,OAAc,gBAAd,C;UAAc,2B;UACV,IAAI,gBAAW,UAAK,OAAL,CAAX,CAAJ,C;YACI,OAA
O,O;;;;MAInB,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,cAAd,
C;QAAc,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;;QAGf,OAAO,E;K;IAGX,2C;MAIkB,
Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAI,YAAW,UAAK,KAA
L,CAAf,C;UACI,OAAO,E;;;QAGf,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;
MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAI,gBAAW,UAAK,KAAL,CAAX,CAAJ,C;UACI,OAAO,K;;;MAMkB,OAA
Q,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAf,C;UA
CI,OAAO,K;;;MAGf,OAAO,E;K;IAGX,2C;MAMkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,

cAAd,C;QAAc,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;IAGX,2C;
MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,CAAR,W;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAI,YAAW,UA
AK,KAAL,CAAf,C;UACI,OAAO,K;;;MAGf,OAAO,E;K;IAGX,2C;MAIkB,Q;MAAA,OAAQ,WAAR,wBAAQ,C
AAR,W;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAI,YAAW,UAAK,KAAL,CAAf,C;UACI,OAAO,K;;;MAGf,
OAAO,E;K;IAGX,+B;MAMI,OA8jLO,qBAAQ,CA9jLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;
IAGpC,iC;MAMI,OA6jLO,qBAAQ,CA7jLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;
MAMI,OA4jLO,qBAAQ,CA5jLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OA
2jLO,qBAAQ,CA3jLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OA0jLO,qBA
AQ,CA1jLR,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OAyjLO,qBAAQ,CAzjL
R,GAAe,IAAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OAwjLO,qBAAQ,CAxjLR,GAAe,I
AAf,GAAyB,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OAujLO,qBAAQ,CAvjLR,GAAe,IAAf,GAAy
B,UAAK,mBAAO,CAAP,IAAL,C;K;IAGpC,iC;MAMI,OAsjLO,qBAAQ,CAtjLR,GAAe,IAAf,GAAyB,UAAK,m
BAAO,CAAP,IAAL,C;K;4FAGpC,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL
,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OA
AV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;4FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QA
MkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UA
AK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;6FAaA,yB;
MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc
,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAE
nC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,S
AAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAA
V,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAM
kB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK
,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;6FAaA,yB;MA
AA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cA
Ad,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,
OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAA
K,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,C
AAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA,0D;MAAA,+C;MAAA,uC;QAMkB,
Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,K
AAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;6FAaA,yB;MAAA
,0D;MAAA,+C;MAAA,oC;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,O
AAc,cAAd,C;UAAc,uB;UACV,cAAc,UAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;
QAEnC,OAAO,I;O;KAVX,C;kFAaA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;K
ARX,C;oFAWA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB;
MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB;MAAA,mC;MAAA,g
D;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,
OAAO,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAA
P,C;O;KARX,C;oFAWA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;oFA
WA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;oFAWA,yB;MAAA,mC;
MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;IAWA,qC;MAOI,IAoxKO,qBAAQ,CApxKf,C
;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,qC;MAOI,
IAgxKO,qBAAQ,CAhxKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,
CAAX,C;K;IAGX,sC;MAOI,IA4wKO,qBAAQ,CA5wKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,U
AAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,sC;MAOI,IAwwKO,qBAAQ,CAxwKf,C;QACI,MAAM,2BAAu
B,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,sC;MAOI,IAowKO,qBAAQ,CAp
wKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,sC;
MAOI,IAgwKO,qBAAQ,CAhwKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,g

BAAR,CAAX,C;K;IAGX,sC;MAOI,IA4vKO,qBAAQ,CA5vKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OA
AO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,sC;MAOI,IAwvKO,qBAAQ,CAxvKf,C;QACI,MAAM,2B
AAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,sC;MAOI,IAovKO,qBAAQ,
CApvKf,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;8FAG
X,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,yB;MAAA,mC;MA
AA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,yB;MAAA,mC;MAAA,4D;MAAA,4B;Q
AOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,c
AAb,C;O;KAPX,C;gGAUA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;g
GAUA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,yB;MAAA,m
C;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,yB;MAAA,mC;MAAA,4D;MAAA,
4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;gGAUA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wB
AAa,cAAb,C;O;KAPX,C;IAUA,2C;MAMI,IA+kKO,qBAAQ,CA/kKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,M
AAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,2C;MAMI,IA4kKO,qBAAQ,CA5kKf,C;QACI,OAAO,I;MACX,OAAO,
UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,4C;MAMI,IAykKO,qBAAQ,CAzkKf,C;QACI,OAAO,I;MACX
,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,4C;MAMI,IAskKO,qBAAQ,CAtkKf,C;QACI,OAAO,I;
MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,4C;MAMI,IAmkKO,qBAAQ,CAnkKf,C;QACI,
OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,4C;MAMI,IAgkKO,qBAAQ,CAhkKf,
C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,4C;MAMI,IA6jKO,qBAAQ,
CA7jKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,4C;MAMI,IA0jKO,q
BAAQ,CA1jKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,4C;MAMI,IA
ujKO,qBAAQ,CAvjKf,C;QACI,OAAO,I;MACX,OAAO,UAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,2B;M
AIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aAACH,C;UAAK,MAAM,2BAAuB,iBAAvB,C;aAACX,C;UAAK,iBAAK,
CAAL,C;UAAL,K;;UACQ,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,
gBAAN,C;aAACH,C;UAAK,MAAM,2BAAuB,iBAAvB,C;aAACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;;UACQ,M
AAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,
MAAM,2BAAuB,iBAAvB,C;aAACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;;UACQ,MAAM,gCAAyB,kCAAzB,C;;
MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aAACH,C;UAAK,MAAM,2BAAuB,iBAAvB,C;
aAACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;;UACQ,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;IAOJ,6B;MAIiB
,IAAN,I;MAAA,QAAM,gBAAN,C;aAACH,C;UAAK,MAAM,2BAAuB,iBAAvB,C;aAACX,C;UAAK,iBAAK,CAA
L,C;UAAL,K;;UACQ,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBA
AN,C;aAACH,C;UAAK,MAAM,2BAAuB,iBAAvB,C;aAACX,C;UAAK,iBAAK,CAAL,C;UAAL,K;;UACQ,MAAM
,gCAAyB,kCAAzB,C;;MAHlB,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aAACH,C;UAAK,MAA
M,2BAAuB,iBAAvB,C;aAACX,
C;UAAK,iBAAK,CAAL,C;UAAL,K;;UACQ,MAAM,gCAAyB,kCAAzB,C;;MAHlB,W;K;oFAOJ,yB;MAAA,kF;MAAA,iE;MAAA,gB;MAAA,8
B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAiB,I;QACjB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,S
AAhB,M;UAACI,IAAI,UAAU,OAAV,CAAJ,C;YAACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,6E;O;KAfX,C;oFAkBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAAoB,I;QAACpB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,6E;O;KAfX,C;oFAkBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAAqB,I;QAACrB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAACI,IAAI,UAAU,OAAV,CAAJ,C;YAACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,6E;O;KAfX,C;oFAkBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aA

AmB,I;QACnB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CA
AJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI
,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,2D;O;KAfX,C;qFAkBA,yB;MAAA,kF;M
AAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAoB,I;QACpB,YAAY,K;QACZ,wBAAgB,SAAhB,g
B;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,
gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAv
B,C;QAElB,OAAO,iE;O;KAfX,C;qFAkBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;Q
AXP,aAAqB,I;QACrB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OA
AV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAG
hB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,2D;O;KAfX,C;qFAkBA,yB;MA
AA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAsB,I;QACtB,YAAY,K;QACZ,wBAAgB,S
AAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8
BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,
mDAAvB,C;QAElB,OAAO,2D;O;KAfX,C;qFAkBA,yB;MAAA,kF;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,U
AST,M;QAXP,aAAuB,I;QACvB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,U
AAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ
,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,4D;O;KAfX,C;qFAkBA
,yB;MAAA,oC;MAAA,kF;MAAA,gC;MAAA,iE;MAAA,8B;MAAA,uC;QAMoB,UAST,M;QAXP,aAAoB,I;QAC
pB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,IAAI,UAAU,oBAAV,CAA
J,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,
CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,4E;O;KAfX,C;IAkBA,iC;MAII,OAAW,q
BAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,
CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IA
GvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAA
Q,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAA
L,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,
mC;MAII,OAAW,qBAAQ,CAAZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,mC;MAII,OAAW,qBAAQ,CA
AZ,GAAe,UAAK,CAAL,CAAf,GAA4B,I;K;gGAGvC,gC;MAMoB,Q;MAFhB,aAAiB,I;MACjB,YAAY,K;MACZ
,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAA
W,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,
M;K;gGAGX,gC;MAMoB,Q;MAFhB,aAAiB,I;MACjB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,S
AAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QA
AQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aA
AqB,I;MACrB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CA
AJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;Q
AAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAmB,I;MACnB,YAAY,K;MACZ,wBAA
gB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAA
O,I;UAClB,SAAS,O;UACT,QAAQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGA
GX,gC;MAMoB,Q;MAFhB,aAAoB,I;MACpB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;
QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;;M
AGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAqB,I;M
ACrB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UA
CI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OA
AO,I;MACnB,OAAO,M;K;iGAGX,gC;MAMoB,Q;MAFhB,aAAsB,I;MACtB,YAAY,K;MACZ,wBAAgB,SAAhB
,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB
,SAAS,O;UACT,QAAQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;M
AMoB,Q;MAFhB,aAAuB,I;MACvB,YAAY,K;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IA
AI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;;MAGhB,IA

AI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAMo
B,Q;QAFhB,aAAoB,I;QACpB,YAAY,K;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,
IAAI,UAAU,oBAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,OAAO,I;YAClB,SAAS,O;YACT,QAAQ,I;;;QAGhB,I
AAI,CAAC,KAAL,C;UAAY,OAAO,I;QACnB,OAAO,M;O;KAdX,C;IAiBA,4B;McvqGI,IAAI,Ed+qGI,KAAK,Cc
/qGT,CAAJ,C;QACI,cd8qGc,sD;Qc7qGd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md8qGV,OAAO,oBAAoB,gBAA
V,mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;McnrGI,IAAI,Ed2rGI,KAAK,Cc3rGT,CAAJ,C;QA
CI,cd0rGc,sD;QczrGd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md0rGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,I
AAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;Mc/rGI,IAAI,EdusGI,KAAK,CcvsGT,CAAJ,C;QACI,cdssGc,sD;Qcrs
Gd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MdssGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,
CAApB,C;K;IAGX,8B;Mc3sGI,IAAI,EdmtGI,KAAK,CcntGT,CAAJ,C;QACI,cdktGc,sD;QcjtGd,MAAM,gCAAy
B,OAAQ,WAAjC,C;;MdktGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,
8B;McvtGI,IAAI,Ed+tGI,KAAK,Cc/tGT,CAAJ,C;QACI,cd8tGc,sD;Qc7tGd,MAAM,gCAAyB,OAAQ,WAAjC,C;;
Md8tGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;McnuGI,IAAI,Ed
2uGI,KAAK,Cc3uGT,CAAJ,C;QACI,cd0uGc,sD;QczuGd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md0uGV,OAAO,
sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;Mc/uGI,IAAI,EduvGI,KAAK,Ccvv
GT,CAAJ,C;QACI,cdsvGc,sD;QcrvGd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MdsvGV,OAAO,sBAAoB,gBAAV,
mBAAO,CAAP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;Mc3vGI,IAAI,EdmwGI,KAAK,CcnwGT,CAAJ,C;Q
ACI,cdkwGc,sD;QcjwGd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MdkwGV,OAAO,sBAAoB,gBAAV,mBAAO,CA
AP,IAAU,EAAc,CAAd,CAApB,C;K;IAGX,8B;McvwGI,IAAI,Ed+wGI,KAAK,Cc/wGT,CAAJ,C;QACI,cd8wGc,s
D;Qc7wGd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md8wGV,OAAO,sBAAoB,gBAAV,mBAAO,CAAP,IAAU,EA
Ac,CAAd,CAApB,C;K;IAGX,gC;McnxGI,IAAI,Ed2xGI,KAAK,Cc3xGT,CAAJ,C;QACI,cd0xGc,sD;QczxGd,MA
AM,gCAAyB,OAAQ,WAAjC,C;;Md0xGV,OAAO,gBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAh
B,C;K;IAGX,kC;Mc/xGI,IAAI,EduyGI,KAAK,CcvyGT,CAAJ,C;QACI,cdsyGc,sD;QcryGd,MAAM,gCAAyB,OA
AQ,WAAjC,C;;MdsyGV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;IAGX,kC;
Mc3yGI,IAAI,EdmzGI,KAAK,CcnzGT,CAAJ,C;QACI,cdkzGc,sD;QcjzGd,MAAM,gCAAyB,OAAQ,WAAjC,C;;
MdkzGV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;IAGX,kC;McvzGI,IAAI,Ed
+zGI,KAAK,Cc/zGT,CAAJ,C;QACI,cd8zGc,sD;Qc7zGd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md8zGV,OAAO,k
BAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;IAGX,kC;Mcn0GI,IAAI,Ed20GI,KAAK,Cc30
GT,CAAJ,C;QACI,cd00Gc,sD;Qcz0Gd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md00GV,OAAO,kBAAgB,gBAAV,
mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;IAGX,kC;Mc/0GI,IAAI,Edu1GI,KAAK,Ccv1GT,CAAJ,C;QAC
I,cds1Gc,sD;Qcr1Gd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Mds1GV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IA
AU,EAAc,CAAd,CAAhB,C;K;IAGX,kC;Mc31GI,IAAI,Edm2GI,KAAK,Ccn2GT,CAAJ,C;QACI,cdk2Gc,sD;Qcj2
Gd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Mdk2GV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd
,CAAhB,C;K;IAGX,kC;Mcv2GI,IAAI,Ed+2GI,KAAK,Cc/2GT,CAAJ,C;QACI,cd82Gc,sD;Qc72Gd,MAAM,gCA
AyB,OAAQ,WAAjC,C;;Md82GV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;IA
GX,kC;Mcn3GI,IAAI,Ed23GI,KAAK,Cc33GT,CAAJ,C;QACI,cd03Gc,sD;Qcz3Gd,MAAM,gCAAyB,OAAQ,WA
AjC,C;;Md03GV,OAAO,kBAAgB,gBAAV,mBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;gGAGX,yB;MAAA
,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,B,U;UACI,IAAI,CAAC,UAAU,UA
AK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,W;O;KAXX,C;kGAcA
,yB;MAAA,8D;MAAA,2C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,B,U;UACI,IAAI,CAAC,
UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,W;O;KAX
X,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,B,U;UACI,
IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO
,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/
B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;Q
AGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WA
A+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,
IAAL,C;;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,

Open Source Used In Virtual Visitation System 3.0 3.0.2 - Update 1689

wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,Q
AAQ,CAAR,IAAL,C;;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;MAAA,uC;Q
AMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAA
O,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,qD;
MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C
;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,W;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,oC;
MAAA,4C;MAAA,qD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,
KAAL,EAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,W;O;KAXX,C;wFAcA,yB;
MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SA
Ab,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,
WAAI,IAAJ,C;YACL,WAAW,I;;;QAEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QA
Fb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IA
AK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;;Q
AEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QAC
X,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAA
C,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;;QAEnB,OAAO,I;O;KAfX,C;0FAkBA,
yB;MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,
SAAb,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IA
AK,WAAI,IAAJ,C;YACL,WAAW,I;;;QAEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q
;QAFb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,
IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;;
QAEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QA
CX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CA
AC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;;QAEnB,OAAO,I;O;KAfX,C;0FAkB
A,yB;MAAA,+D;MAAA,uC;QAQiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAA
A,SAAb,M;UACI,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,I
AAK,WAAI,IAAJ,C;YACL,WAAW,I;;;QAEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,uC;QAQiB,
Q;QAFb,eAAe,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,QAAJ,C;YA
CI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,
I;;;QAEnB,OAAO,I;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,oC;MAAA,gC;MAAA,uC;QAQiB,Q;QAFb,eAA
e,K;QACf,WAAW,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAb,UAAa,SAAb,O;UACI,IAAI,QAAJ,C;YACI,IAA
K,WAAI,iBAAJ,C;eACJ,IAAI,CAAC,UAAU,iBAAV,CAAL,C;YACD,IAAK,WAAI,iBAAJ,C;YACL,WAAW,I;;;
QAEnB,OAAO,I;O;KAfX,C;kFAkBA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAmgBA,Q;QAAhB,iD;U
AAgB,cAAhB,e;UAAsB,IAngBU,SAmgBN,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAngB1D
,OAogBO,W;O;KA1gBX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAogBA,Q;QAAhB,iD;UAA
gB,cAAhB,e;UAAsB,IApgBU,SApgBN,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QApgB1D,OAq
gBO,W;O;KA3gBX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAqgBA,Q;QAAhB,iD;UAAgB,c
AAhB,e;UAAsB,IArgBU,SArgBN,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QArgB1D,OAsgBO,
W;O;KA5gBX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAsgBA,Q;QAAhB,iD;UAAgB,cAAhB,
e;UAAsB,IAtgBU,SAtgBN,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAtgB1D,OAugBO,W;O;
KA7gBX,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAugBA,Q;QAAhB,iD;UAAgB,cAAhB,e;UAA
sB,IAvgBU,SAvgBN,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAvgB1D,OAwgBO,W;O;KA9gB
X,C;oFASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAwgBA,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IA
xgBU,SAxgBN,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAxgB1D,OAygBO,W;O;KA/gBX,C;o
FASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QAygBA,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAzgBe,S
AygBX,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAzgB1D,OA0gBO,W;O;KAhhBX,C;o
FASA,yB;MAAA,+D;MAAA,uC;QAMW,kBAAS,gB;QA0gBA,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IA1gBg
B,SA0gBZ,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QA1gB1D,OA2gBO,W;O;KAjhBX,C;oFA

SA,yB;MAAA,+D;MA2gBA,oC;MAAA,gC;MA3gBA,uC;QAMW,kBAAS,gB;QA2gBA,Q;QAAhB,iD;UAAgB,c
AAhB,0B;UAAsB,IA3gBa,SA2gBT,CAAU,oBAAV,CAAJ,C;YAAwB,WAAY,WAAI,oBAAJ,C;;QA3gB1D,OA4
gBO,W;O;KAlhBX,C;gGASA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QAsgTV,gB;QADb,YAAY,C;QA
CZ,iD;UAAa,WAAb,e;UAl6SI,IApGmC,SAoG/B,EAk6SkB,cAl6SlB,EAk6SkB,sBAl6SlB,WAk6S2B,IAl6S3B,C
AAJ,C;YAA2C,sBAk6SZ,IAl6SY,C;;QApG/C,OAsGO,W;O;KA9GX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQ
W,kBAAgB,gB;QAqgTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA95SI,IAvGsC,SAuGlC,EA85SkB,cA
95SlB,EA85SkB,sBA95SlB,WA85S2B,IA95S3B,CAAJ,C;YAA2C,sBA85SZ,IA95SY,C;;QAvG/C,OAyGO,W;O;
KAjHX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QAogTV,gB;QADb,YAAY,C;QACZ,iD;UA
Aa,WAAb,e;UA15SI,IA1GuC,SA0GnC,EA05SkB,cA15SlB,EA05SkB,sBA15SlB,WA05S2B,IA15S3B,CAAJ,C;Y
AA2C,sBA05SZ,IA15SY,C;;QA1G/C,OA4GO,W;O;KApHX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBA
AgB,gB;QAmgTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UAt5SI,IA7GqC,SA6GjC,EAs5SkB,cAt5SlB,E
As5SkB,sBAt5SlB,WAs5S2B,IAt5S3B,CAAJ,C;YAA2C,sBAs5SZ,IAt5SY,C;;QA7G/C,OA+GO,W;O;KAvHX,C;
kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QAkgTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,
e;UAl5SI,IAhHsC,SAgHlC,EAk5SkB,cAl5SlB,EAk5SkB,sBAl5SlB,WAk5S2B,IAl5S3B,CAAJ,C;YAA2C,sBAk5
SZ,IAl5SY,C;;QAhH/C,OAk5HO,W;O;KA1HX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QAig
TV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA94SI,IAnHuC,SAmHnC,EA84SkB,cA94SlB,EA84SkB,sBA
94SlB,WA84S2B,IA94S3B,CAAJ,C;YAA2C,sBA84SZ,IA94SY,C;;QAnH/C,OAqHO,W;O;KA7HX,C;kGAWA,y
B;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QAggTV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UA14SI,I
AtHwC,SAsHpC,EA04SkB,cA14SlB,EA04SkB,sBA14SlB,WA04S2B,IA14S3B,CAAJ,C;YAA2C,sBA04SZ,IA14
SY,C;;QAtH/C,OAwHO,W;O;KAhIX,C;kGAWA,yB;MAAA,+D;MAAA,uC;QAQW,kBAAgB,gB;QA+/SV,gB;Q
ADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UAt4SI,IAzHyC,SAyHrC,EAs4SkB,cAt4SlB,EAs4SkB,sBAt4SlB,WAs
4S2B,IAt4S3B,CAAJ,C;YAA2C,sBAs4SZ,IAt4SY,C;;QAzH/C,OA2HO,W;O;KAnIX,C;kGAWA,yB;MAAA,+D;
MA2HA,gC;MAo4SA,oC;MA//SA,uC;QAQW,kBAAgB,gB;QA8/SV,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAA
b,0B;UAAmB,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UAl4S/B,IA5HsC,SA4HlC,CAAU,OAAV,EAAi
B,OAAjB,CAAJ,C;YAA2C,sBAAI,OAAJ,C;;QA5H/C,OA8HO,W;O;KAtIX,C;oGAWA,6C;MA26SiB,gB;MADb,
YAAY,C;MACZ,iD;QAAa,WAAb,e;UAl6SI,IAAI,WAk6SkB,cAl6SlB,EAk6SkB,sBAl6SlB,WAk6S2B,IAl6S3B,
CAAJ,C;UAA2C,sBAk6SZ,IAl6SY,C;;QA26SC,sBAk6SA,gB;MAu6SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,
WAAb,e;UA95SI,IAAI,WA85SkB,cA95SlB,EA85SkB,sBA95SlB,WA85S2B,IA95S3B,CAAJ,C;UAA2C,sBA85S
Z,IA95SY,C;;MAE/C,OAAO,W;K;qGAGX,6C;MAu6SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;UA15SI,I
AAI,WA05SkB,cA15SlB,EA05SkB,sBA15SlB,WA05S2B,IA15S3B,CAAJ,C;UAA2C,sBA05SZ,IA15SY,C;;MAE/
C,OAAO,W;K;qGAGX,6C;MA+5SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;UAt5SI,IAAI,WAs5SkB,cA
t5SlB,EAs5SkB,sBAt5SlB,WAs5S2B,IAt5S3B,CAAJ,C;UAA2C,sBAs5SZ,IAt5SY,C;;MAE/C,OAAO,W;K;qGAG
X,6C;MA25SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;UAl5SI,IAAI,WAk5SkB,cAl5SlB,EAk5SkB,sBAl
5SlB,WAk5S2B,IAl5S3B,CAAJ,C;UAA2C,sBAk5SZ,IAl5SY,C;;MAE/C,OAAO,W;K;qGAGX,6C;MAu5SiB,gB;
MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;UA94SI,IAAI,WA84SkB,cA94SlB,EA84SkB,sBA94SlB,WA84S2B,I
A94S3B,CAAJ,C;UAA2C,sBA84SZ,IA94SY,C;;MAE/C,OAAO,W;K;qGAGX,6C;MAm5SiB,gB;MADb,YAAY,C;
MACZ,iD;QAAa,WAAb,e;UA14SI,IAAI,WA04SkB,cA14SlB,EA04SkB,sBA14SlB,WA04S2B,IA14S3B,CAAJ,C;U
AA2C,sBA04SZ,IA14SY,C;;MAE/C,OAAO,W;K;sGAGX,6C;MA+4SiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,W
AAb,e;UAt4SI,IAAI,WAs4SkB,cAt4SlB,EAs4SkB,sBAt4SlB,WAs4S2B,IAt4S3B,CAAJ,C;UAA2C,sBAs4SZ,IAt
4SY,C;;MAE/C,OAAO,W;K;sGAGX,yB;MAAA,gC;MAo4SA,oC;MAp4SA,oD;QA24SiB,gB;QADb,YAAY,C;QA
CZ,iD;UAAa,WAAb,0B;UAAmB,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UAl4S/B,IAAI,UAAU,OAA
V,EAAiB,OAAjB,CAAJ,C;YAA2C,sBAAI,OAAJ,C;;QAE/C,OAAO,W;O;KAXX,C;sGAGX,C;sGAcA,yB;MAAA,
+D;MAAA,sC;QAMW,kBAAmB,gB;QASV,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,YAAJ,C;YAAkB,WA
AY,WAAI,oBAAJ,C;;QATpD,OAUO,W;O;KAhBX,C;0GASA,4C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAA
AgB,cAAA,SAAhB,M;QAAsB,IAAI,YAAJ,C;UAAkB,WAAY,WAAI,oBAAJ,C;;MAACpd,OAAO,W;K;wFAGX
,yB;MAAA,+D;MAAA,uC;QAMW,kBAAAY,gB;QAAoGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAp
pGS,SAoGR,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,oBAAJ,C;;QApG3D,OAqGO,W;O;KA3GX,C;0FAS
A,yB;MAAA,+D;MAAA,uC;QAMW,kBAAAY,gB;QAqGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CA

rGY,SAqGX,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QArG3D,OAsGO,W;O;KA5GX,C;0FAS
A,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAsGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAtGa,
SAsGZ,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAtG3D,OAuGO,W;O;KA7GX,C;0FASA,yB;
MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAuGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAvGW,SAu
GV,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAvG3D,OAwGO,W;O;KA9GX,C;0FASA,yB;M
AAA,+D;MAAA,uC;QAMW,kBAAY,gB;QAwGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAxGY,SAwG
X,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAxG3D,OAyGO,W;O;KA/GX,C;0FASA,yB;MAA
A,+D;MAAA,uC;QAMW,kBAAY,gB;QAyGH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CAzGa,SAyGZ,CA
AU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAzG3D,OA0GO,W;O;KAhHX,C;0FASA,yB;MAAA,+D
;MAAA,uC;QAMW,kBAAY,gB;QA0GH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CA1Gc,SA0Gb,CAAU,
OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QA1G3D,OA2GO,W;O;KAjHX,C;0FASA,yB;MAAA,+D;MA
AA,uC;QAMW,kBAAY,gB;QA2GH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAAsB,IAAI,CA3Ge,SA2Gd,CAAU,OAA
V,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QA3G3D,OA4GO,W;O;KAlHX,C;0FASA,yB;MAAA,+D;MA4GA,
oC;MAAA,gC;MA5GA,uC;QAMW,kBAAY,gB;QA4GH,Q;QAAhB,iD;UAAgB,cAAhB,0B;UAAsB,IAAI,CA5G
Y,SA4GX,CAAU,oBAAV,CAAL,C;YAAyB,WAAY,WAAI,oBAAJ,C;;QA5G3D,OA6GO,W;O;KAnHX,C;IASA,
kC;MAMI,OAAO,2BAAgB,gBAAhB,C;K;IAGX,iD;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,S
AAhB,M;QAAsB,IAAI,eAAJ,C;UAAqB,WAAY,WAAI,OAAJ,C;;MACvD,OAAO,W;K;4FAGX,6C;MAMoB,Q;
MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,
WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,c
AAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO
,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UA
AU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wB
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WA
AI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB
,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX
,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,C
AAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAh
B,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;
MAC3D,OAAO,W;K;8FAGX,8FAGX,yB;MAAA,
oC;MAAA,gC;MAAA,oD;QAMoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,O;UAAsB,IAAI,CAAC,UAAU,oBAAV,C;UAAqB,WAAY,WAAI,oBAAJ,C;;QAC3D,OAAO,W;O;KAPX,C;sFAUA
,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;
UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;
QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OA
AO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU
,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBA
AgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,
C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAA
sB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q
;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAA
Y,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,
SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAG
X,6C;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C
;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;wFAGX,yB;MAAA,oC;MAAA,gC;MAAA,oD;QAMoB,
Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,O;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;UAAqB,WAA
Y,WAAI,oBAAJ,C;;QAC1D,OAAO,W;O;KAPX,C;IAUA,mC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMhtIe,W;;MNitItC,OAA4D,OAArD,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,CA

AqD,C;K;IAGhE,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxtIe,W;;MNytItC,Oe7rIsC,Of6rI/B,yBAAY,OAAQ
,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rI+B,C;K;IfgsI1C,qC;MAII,IAAI,OAAQ,UAAZ,C;
QAAuB,OMhuIe,W;;MNiuItC,Oe7rIuC,Of6rIhC,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB
,IAA3B,Ce7rIgC,C;K;IfgsI3C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxuIe,W;;MNyuItC,Oe7rIqC,Of6rI9B,y
BAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rI8B,C;K;IfgsIzC,qC;MAII,IAAI,OA
AQ,UAAZ,C;QAAuB,OMhvIe,W;;MNivItC,Oe7rIsC,Of6rI/B,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GA
AuB,CAAvB,IAA3B,Ce7rI+B,C;K;IfgsI1C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxvIe,W;;MNyvItC,Oe7rI
uC,Of6rIhC,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rIgC,C;K;IfgsI3C,qC;M
AII,IAAI,OAAQ,UAAZ,C;QAAuB,OMhwIe,W;;MNiwItC,Oe7rIwC,Of6rIjC,yBAAY,OAAQ,MAApB,EAA2B,O
AAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rIiC,C;K;IfgsI5C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMxwIe,W;;
MNywItC,Oe7rIyC,Of6rIlC,0BAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,Ce7rIkC,C;
K;IfgsI7C,qC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OMhxIe,W;;MNixItC,OAA4D,SAArD,0BAAY,OAAQ,MAA
pB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,CAAqD,C;K;IAGhE,qC;MAOkB,Q;MAHd,WAAmB,wBAAR
,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAa,IAAb,C;M
ACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,
qC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAA
O,W;MACtB,WAAW,iBAAgB,IAAhB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,UAA
I,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;
MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAiB,IAAjB,C;MACG,yB;MAAd,OAAc,cA
Ad,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WA
AmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBA
Ae,IAAf,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OA
AO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,
C;QAAe,OAAO,W;MACtB,WAAW,iBAAgB,IAAhB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAA
K,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAA
wB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAiB,IAAjB,C;MACG,yB;M
AAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB
,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACt
B,WAAW,iBAAkB,IAAlB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,UAAI,KAAJ,CA
AJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IA
AI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAmB,IAAnB,C;MACG,yB;MAAd,OAAc,cAAd,C;QA
Ac,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MAOkB,Q;MAHd,WAAmB,wB
AAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAgB,IAA
hB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,UAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;
K;IAGX,wC;MAMwB,UACT,M;MAHX,aAAa,aAAa,SAAb,EAAmB,OAAQ,KAA3B,C;MACb,kBAAkB,C;MAC
E,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YAAwB,UAAK,WAAL,C;
;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,cAAU,OAAQ,KAAlB,C;MACb,kBAAkB,C;M
ACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,oBAAP,EAAO,4BAAP,YAAwB,U
AAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,eAAW,OAAQ,KAAnB,C;MA
Cb,kBAAkB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,eAAS,OAAQ,K
AAjB,C;MACb,kBAAkB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BA
AP,YAAwB,UAAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAAU,OAAQ,K
AAlB,C;MACb,kBAAkB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BA
AP,YAAwB,U
AAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAAW,OAAQ,KAAnB,C;M
ACb,kBAAkB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAAP,YA
AwB,UAAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAAY,OAAQ,KAAp
B,C;MACb,kBAAkB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4BAA

P,YAAwB,UAAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,oBAAa,OAAQ,K
AArB,C;MACb,kBAAkB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EAAO,4
BAAP,YAAwB,UAAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAMwB,UACT,M;MAHX,aAAa,iBAAU,OA
AQ,KAAlB,C;MACb,kBAAkB,C;MACE,yB;MAApB,OAAoB,cAApB,C;QAAoB,6B;QAChB,OAAO,oBAAP,EA
AO,4BAAP,YAAwB,UAAK,WAAL,C;;MAE5B,OAAO,M;K;IAGX,0C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OA
AO,yBAAY,CAAZ,EAAe,CAAf,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CA
AvB,IAA3B,C;K;IAGX,0C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,cAAU,CAAV,C;MAC9B,OAAO,yBAA
Y,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;Q
AAuB,OAAO,eAAW,CAAX,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB
,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,eAAS,CAAT,C;MAC9B,OAAO,yBAAY,OA
AQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB
,OAAO,iBAAU,CAAV,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA
3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,iBAAW,CAAX,C;MAC9B,OAAO,yBAAY,OAA
Q,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,
OAAO,iBAAY,CAAZ,C;MAC9B,OAAO,yBAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3
B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OAAO,oBAAa,CAAb,C;MAC9B,OAAO,0BAAY,OAAQ,
MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C;K;IAGX,2C;MAII,IAAI,OAAQ,UAAZ,C;QAAuB,OA
AO,iBAAU,CAAV,C;MAC9B,OAAO,0BAAY,OAAQ,MAApB,EAA2B,OAAQ,aAAR,GAAuB,CAAvB,IAA3B,C
;K;IAGX,4B;MAciB,Q;Mc3nJb,IAAI,EdqnJI,KAAK,CcrnJT,CAAJ,C;QACI,cdonJc,sD;QcnnJd,MAAM,gCAAyB,
OAAQ,WAAjC,C;;MdonJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OA
AO,iB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,
WAAW,iBAAa,CAAb,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAAJ,C;QACL,I
AAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;McjpJb,IAAI,Ed2oJI,KAAK,Cc3oJT,CA
AJ,C;QACI,cd0oJc,sD;QczoJd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md0oJV,IAAI,MAAK,CAAT,C;QAAY,OAA
O,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,iB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,U
AAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAgB,CAAhB,C;MACX,wBAAa,SAAb,gB;QAAa,
WAAA,SAAb,M;QACI,IAAK,WAAI,IAAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,
8B;MAciB,Q;McvqJb,IAAI,EdiqJI,KAAK,CcjqJT,CAAJ,C;QACI,cdgqJc,sD;Qc/pJd,MAAM,gCAAyB,OAAQ,W
AAjC,C;;MdgqJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,mB;
MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW
,iBAAiB,CAAjB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAAJ,C;QACL,IAAI,
mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mc7rJb,IAAI,EdurJI,KAAK,CcvrJT,CAAJ,C;
QACI,cdsrJc,sD;QcrrJd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MdsrJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;M
ACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,C
AAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAe,CAAf,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAA
b,M;QACI,IAAK,WAAI,IAAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q
;McntJb,IAAI,Ed6sJI,KAAK,Cc7sJT,CAAJ,C;QACI,cd4sJc,sD;Qc3sJd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md4
sJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,
MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAgB,CA
AhB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAAJ,C;QACL,IAAI,mCAAW,CA
Af,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;MczuJb,IAAI,EdmuJI,KAAK,CcnuJT,CAAJ,C;QACI,cdku
Jc,sD;QcjuJd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MdkuJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IA
AI,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CA
AP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAiB,CAAjB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;Q
ACI,IAAK,WAAI,IAAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mc/v
Jb,IAAI,EdyvJI,KAAK,CczvJT,CAAJ,C;QACI,cdwvJc,sD;QcvvJd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MdwvJV,
IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAA
K,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAkB,CAAlB,C

;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;
UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;McrxJb,IAAI,Ed+wJI,KAAK,Cc/wJT,CAAJ,C;QACI,cd8wJc,sD
;Qc7wJd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md8wJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,
KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,CAAL,CAAP,
C;MACnB,YAAY,C;MACZ,WAAW,iBAAmB,CAAnB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QA
CI,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,8B;MAciB,Q;Mc3yJ
b,IAAI,EdqyJI,KAAK,CcryJT,CAAJ,C;QACI,cdoyJc,sD;QcnyJd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MdoyJV,I
AAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,gBAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAA
K,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,EAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAgB,CAAhB,
C;MACX,wBAAa,SAAb,gB;QAAa,WAAb,UAAa,SAAb,O;QACI,IAAK,WAAI,iBAAJ,C;QACL,IAAI,mCAAW,
CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,gC;McnzJI,IAAI,Ed2zJI,KAAK,Cc3zJT,CAAJ,C;QACI,cd0zJc,sD;Qc
zzJd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md0zJV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB
;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,iB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,O
AAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAa,CAAb,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7
B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mct0JI,IAAI,Ed80JI,KAAK,Cc90J
T,CAAJ,C;QACI,cd60Jc,sD;Qc50Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md60JV,IAAI,MAAK,CAAT,C;QAAY
,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;
QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAgB,CAAhB,C;MACX,iBAAc
,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC
;Mcz1JI,IAAI,Edi2JI,KAAK,Ccj2JT,CAAJ,C;QACI,cdg2Jc,sD;Qc/1Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Mdg2
JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,m
B;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,i
BAAiB,CAAjB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CA
AJ,C;MACT,OAAO,I;K;IAGX,kC;Mc52JI,IAAI,Edo3JI,KAAK,Ccp3JT,CAAJ,C;QACI,cdm3Jc,sD;Qcl3Jd,MAA
M,gCAAyB,OAAQ,WAAjC,C;;Mdm3JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,I
AAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CA
AP,IAAL,CAAP,C;MACnB,WAAW,iBAAe,CAAf,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QA
CI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mc/3JI,IAAI,Edu4JI,KAAK,Ccv4JT,CAAJ,
C;QACI,cds4Jc,sD;Qcr4Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Mds4JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,
W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,
OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAgB,CAAhB,C;MACX,iBAAc,OAAO
,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mcl5JI
,IAAI,Ed05JI,KAAK,Cc15JT,CAAJ,C;QACI,cdy5Jc,sD;Qcx5Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Mdy5JV,IA
AI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MA
CtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAi
B,CAAjB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;
MACT,OAAO,I;K;IAGX,kC;Mcr6JI,IAAI,Ed66JI,KAAK,Cc76JT,CAAJ,C;QACI,cd46Jc,sD;Qc36Jd,MAAM,gCA
AyB,OAAQ,WAAjC,C;;Md46JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KA
AK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,UAAK,OAAO,CAAP,IAA
L,CAAP,C;MACnB,WAAW,iBAAkB,CAAlB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IA
AK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mcx7JI,IAAI,Edg8JI,KAAK,Cch8JT,CAAJ,C;Q
ACI,cd+7Jc,sD;Qc97Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Md+7JV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;
MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OA
AO,OAAO,UAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAmB,CAAnB,C;MACX,iBAAc,OAAO,C
AAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,UAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,kC;Mc38JI,I
AAI,Edm9JI,KAAK,Ccn9JT,CAAJ,C;QACI,cdk9Jc,sD;Qcj9Jd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Mdk9JV,IAA
I,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,gB;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACt
B,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,OAAO,CAAP,IAAL,EAAP,C;MACnB,WAAW,iBAAgB

,CAAhB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,EAAJ,C;
MACT,OAAO,I;K;gGAGX,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,C
AA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,
C;;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,2C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAA
d,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,C
AAR,IAAL,C;;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iB
AAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAA
K,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,u
C;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,O
AAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4C;MAAA,g
D;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,CAAV,CAAL
,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,8D;MAAA,4
C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UAAK,KAAL,C
AAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,iB;O;KAXX,C;kGAcA,yB;MAAA,
8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,UA
AK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,iB;O;KAXX,C;kGAcA
,yB;MAAA,8D;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,
UAAU,UAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,iB;O;KAX
X,C;kGAcA,yB;MAAA,8D;MAAA,oC;MAAA,4C;MAAA,gD;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/
B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,EAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;
QAGf,OAAO,iB;O;KAXX,C;wFAcA,yB;MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,S
AAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,
C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,S
AAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,
C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,S
AAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,
C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,S
AAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,
C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,S
AAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,
C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;MAAA,+D;MAAA,uC;QAOiB,Q;QADb,WAAW,gB;QACX,wBAAa,S
AAb,gB;UAAa,WAAA,SAAb,M;UACI,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,
C;;QAET,OAAO,I;O;KAZX,C;0FAeA,yB;MAAA,+D;MAAA,oC;MAAA,gC;MAAA,uC;QAOiB,Q;QADb,WAA
W,gB;QACX,wBAAa,SAAb,gB;UAAa,WAAb,UAAa,SAAb,O;UACI,IAAI,CAAC,UAAU,UAAU,iBAAV,CAAL,C;YAC
I,K;UACJ,IAAK,WAAI,iBAAJ,C;;QAET,OAAO,I;O;KAZX,C;IAeA,4B;MAII,eAAe,CAAC,mBAAO,CAAP,IAA
D,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,wB;MACnB,iBAAc,CAAd,WAAi
B,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,I
AAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,
CAAf,C;QAAkB,M;MAClB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAA
L,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,
eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,
0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,WAAiB,QA

AjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB
,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,
C;QAAkB,M;MAClB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;Q
ACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,
CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,0B;M
ACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAA
L,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CA
Ab,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;
QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QA
CrB,mC;;K;IAIR,8B;MAII,eAAe,CAAC,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QA
AkB,M;MAClB,mBAAmB,0B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,
UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,8B;MAII,eAAe,CAA
C,mBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,0B;MACnB,
iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;Q
ACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,kD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,
gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;
MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;Q
ACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,kD;MAWI,oCA
Aa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CA
AxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA
8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,
IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,
eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAm
B,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAA
L,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAa,2BAAkB,SAA
lB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,
cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QAC
I,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,
mC;;K;IAIR,mD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAA
Y,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;
MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,Y
AAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7
B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,IAAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;
QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,SAAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,
KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UAAK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,mD;
MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAe,CAAC,YAAY,OAAZ,IAAD,I
AAwB,CAAxB,I;MACf,IAAI,cAAa,QAAjB,C;QAA2B,M;MAC3B,mBAAmB,UAAU,CAAV,I;MACnB,iBAAc,S
AAd,UAA8B,QAA9B,U;QACI,UAAU,UAAK,KAAL,C;QACV,UAAK,KAAL,IAAc,UAAK,YAAL,C;QACd,UA
AK,YAAL,IAAqB,G;QACrB,mC;;K;IAIR,6B;MAII,IA+nEO,qBAAQ,CA/nEf,C;QAAe,OAAO,W;MACtB,WAAW,wB;MACN,W
AAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IA6nEO,qBAAQ,CA7nEf,C;QAAe,OAAO,W;M

ACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAynEO,qBAAQ,CAznEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAunEO,qBAAQ,CAvnEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAqnEO,qBAAQ,CArnEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAmnEO,qBAAQ,CAnnEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IAinEO,qBAAQ,CAjnEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IA+mEO,qBAAQ,CA/mEf,C;QAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,kC;MAII,IAqiEO,qBAAQ,CAriEf,C;QAAe,OAAO,S;MACtB,aAAa,aAAa,SAAb,EAAmB,gBAAnB,C;MACb,gBAAgB,wB;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAiiEO,qBAAQ,CAjiEf,C;QAAe,OAAO,S;MACtB,aAAa,cAAU,gBAAV,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IA6hEO,qBAAQ,CA7hEf,C;QAAe,OAAO,S;MACtB,aAAa,eAAW,gBAAX,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAyhEO,qBAAQ,CAzhEf,C;QAAe,OAAO,S;MACtB,aAAa,eAAS,gBAAT,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAqhEO,qBAAQ,CArhEf,C;QAAe,OAAO,S;MACtB,aAAa,iBAAU,gBAAV,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAihEO,qBAAQ,CAjhEf,C;QAAe,OAAO,S;MACtB,aAAa,iBAAW,gBAAX,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IA6gEO,qBAAQ,CA7gEf,C;QAAe,OAAO,S;MACtB,aAAa,iBAAY,gBAAZ,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAygEO,qBAAQ,CAzgEf,C;QAAe,OAAO,S;MACtB,aAAa,oBAAa,gBAAb,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAqgEO,qBAAQ,CArgEf,C;QAAe,OAAO,S;MACtB,aAAa,iBAAU,gBAAV,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,U AAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,4B;MAKI,qBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,qBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,8B;MAKI,sBAAQ,4BAAR,C;K;IAGJ,sC;MAOI,aAAU,wBAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,sC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;IAIlB,uC;MAOI,aAAU,0BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,UAAK,CAAL,C;QACX,UAAK,CAAL,IAAU,UAAK,CAAL,C;QACV,UAAK,CAAL,IAAU,I;;K;kFAIlB,yB;MAAA,oD;MgBn5LA,sC;MAAA,oC;MAAA,uBAAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,QA5Dd,C;WA4DgB,SA;SAA2B,C

CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB44Lf,sC;QAMI,IAAI,mBAAO,CAAX,C
;UAAc,oBgBl5Ld,eAAW,iBhBk5LsB,QgBl5LtB,CAAX,ChBk5Lc,C;;O;KANlB,C;sGASA,yB;MAAA,oD;MgBz4
LA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,S
A+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhBk4Lf,sC;QAMI,IAAI,mBAAO,C
AAX,C;UAAc,oBgBx4Ld,eAAW,2BhBw4LgC,QgBx4LhC,CAAX,ChBw4Lc,C;;O;KANlB,C;IASA,mC;MAMI,o
BAAS,cAAT,C;K;IAGJ,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;;K;IAIR,qC;MAII,IAAI,mBAAO,C
AAX,C;QACI,e;QACA,oB;;K;IAIR,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;;K;IAIR,qC;MAII,IAAI
,mBAAO,CAAX,C;QACI,iB;QACA,oB;;K;IAIR,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;;K;IAIR,q
C;MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;;K;IAIR,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,o
B;;K;IAIR,2B;MAMI,OAAqB,OAAd,sBAAc,C;K;IAGzB,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,
OiB5gMhC,WjB4gMgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiBnhMhC,WjBmhM
gC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiB1hMhC,WjB0hMgC,C;K;IAG3C,6B;M
AI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiBjiMhC,WjBiiMgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAu
B,mB;MAA9B,OAAuC,OiBxiMhC,WjBwiMgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAu
C,OiB/iMhC,WjB+iMgC,C;K;IAG3C,6B;MAI0B,kBAAf,0B;MAAuB,mB;MAA9B,OAAuC,OiBtjMhC,WjBsjMg
C,C;K;IAG3C,gC;MAMI,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAd,SepjKiB,Q;MfojKK,mB;
MAA7B,OiBhkMO,W;K;IjBmkMX,kC;MAII,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAd,SeljK
iB,Q;MfkjKK,iB;MAA7B,OiBxkMO,W;K;IjB2kMX,kC;MAII,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MA
CD,kBAAd,SehjKiB,Q;MfgjKK,iB;MAA7B,OiBhlMO,W;K;IjBmlMX,kC;MAII,IA6kDO,qBAAQ,CA7kDf,C;QA
Ae,OAAO,S;MACD,kBAAd,Se9iKiB,Q;Mf8iKK,iB;MAA7B,OiBxlMO,W;K;IjB2lMX,kC;MAII,IA6kDO,qBAA
Q,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAT,UAAL,SAAK,C;MAAiB,mB;MAA7B,OiBhmMO,W;K;IjBmmMX
,kC;MAII,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAd,Se3iKiB,Q;Mf2iKK,iB;MAA7B,OiBxm
MO,W;K;IjB2mMX,kC;MAII,IA6kDO,qBAAQ,CA7kDf,C;QAAe,OAAO,S;MACD,kBAAd,SeziKiB,Q;MfyiKK,i
B;MAA7B,OiBhnMO,W;K;IjBmnMX,kC;MAII,IAqlDO,qBAAQ,CArlDf,C;QAAe,OAAO,S;MACD,kBAAT,UA
AL,SAAK,C;MAAiB,iB;MAA7B,OiBxnMO,W;K;IjB2nMX,0C;MAMI,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAA
O,S;MACD,kBAAd,SetnKiB,Q;MfsnKK,sBAAS,cAAT,C;MAA7B,OiBloMO,W;K;IjBqoMX,4C;MAII,IA2gDO,q
BAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,SepnKiB,Q;MfonKK,6B;MAA7B,OiB1oMO,W;K;IjB6oMX,4
C;MAII,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,SelnKiB,Q;MfknKK,6B;MAA7B,OiBlpMO
,W;K;IjBqpMX,4C;MAII,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAd,SehnKiB,Q;MfgnKK,6B;
MAA7B,OiB1pMO,W;K;IjB6pMX,4C;MAII,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S;MACD,kBAAT,UAA
L,SAAK,C;MAAiB,6B;MAA7B,OiBlqMO,W;K;IjBqqMX,4C;MAII,IA2gDO,qBAAQ,CA3gDf,C;QAAe,OAAO,S
;MACD,kBAAd,Se7mKiB,Q;Mf6mKK,6B;MAA7B,OiB1qMO,W;K;IjB6qMX,4C;MAII,IA2gDO,qBAAQ,CA3gD
f,C;QAAe,OAAO,S;MACD,kBAAd,Se3mKiB,Q;Mf2mKK,6B;MAA7B,OiBlrMO,W;K;IjBqrMX,4C;MAII,IAmh
DO,qBAAQ,CAnhDf,C;QAAe,OAAO,S;MACD,kBAAT,UAAL,SAAK,C;MAAiB,6B;MAA7B,OiB1rMO,W;K;Ij
B6rMX,gD;MAMI,IAy8CO,qBAAQ,CAz8Cf,C;QAAe,OAAO,S;MACD,kBAAd,SexrKiB,Q;MfwrKK,iC;MAA7B
,OiBpsMO,W;K;sFjBusMX,yB;MAAA,wD;MgB5rMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;U
AAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C
;W;S;OA4DI,C;MhBqrMf,sC;QAQI,OAAO,sBgB7rMP,eAAW,iBhB6rMiB,QgB7rMjB,CAAX,ChB6rMO,C;O;KA
RX,C;wFAWA,yB;MAAA,wD;MgBvsMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;Y
AAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4
DI,C;MhBgsMf,sC;QAMI,OAAO,sBgBtsMP,eAAW,iBhBssMiB,QgBtsMjB,CAAX,ChBssMO,C;O;KANX,C;wF
ASA,yB;MAAA,wD;MgBhtMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAs
B,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBy
sMf,sC;QAMI,OAAO,sBgB/sMP,eAAW,iBhB+sMiB,QgB/sMjB,CAAX,ChB+sMO,C;O;KANX,C;wFASA,yB;M
AAA,wD;MgBztMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAt
B,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBktMf,sC;QA
MI,OAAO,sBgBxtMP,eAAW,iBhBwtMiB,QgBxtMjB,CAAX,ChBwtMO,C;O;KANX,C;wFASA,yB;MAAA,wD;
MgBluMA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd

,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB2tMf,sC;QAMI,OAAO,
sBgBjuMP,eAAW,iBhBiuMiB,QgBjuMjB,CAAX,ChBiuMO,C;O;KANX,C;wFASA,yB;MAAA,wD;MgB3uMA,s
C;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4
DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBouMf,sC;QAMI,OAAO,sBgB1uM
P,eAAW,iBhB0uMiB,QgB1uMjB,CAAX,ChB0uMO,C;O;KANX,C;wFASA,yB;MAAA,wD;MgBpvMA,sC;MAA
A,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA
5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB6uMf,sC;QAMI,OAAO,sBgBnvMP,eAAW
,iBhBmvMiB,QgBnvMjB,CAAX,ChBmvMO,C;O;KANX,C;wFASA,yB;MAAA,wD;MgB7vMA,sC;MAAA,oC;M
AAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,C
AAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhBsvMf,sC;QAMI,OAAO,sBgB5vMP,eAAW,iBhB4v
MiB,QgB5vMjB,CAAX,ChB4vMO,C;O;KANX,C;wFASA,yB;MAAA,wD;MgBtwMA,sC;MAAA,oC;MAAA,uB
AOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EA
A2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MhB+vMf,sC;QAMI,OAAO,sBgBrwMP,eAAW,iBhBqwMiB,Qg
BrwMjB,CAAX,ChBqwMO,C;O;KANX,C;0GASA,yB;MAAA,wD;MgB5vMA,sC;MAAA,oC;MAAA,iCAOe,yB;
QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+
EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhBqvMf,sC;QAMI,OAAO,sBgB3vMP,eAAW,2BhB2vM2B,QgB3vM3B,
CAAX,ChB2vMO,C;O;KANX,C;4GASA,yB;MAAA,wD;MgBrwMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8
D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/E
N,CAA3B,C;W;S;OA+EI,C;MhB8vMf,sC;QAII,OAAO,sBgBlwMP,eAAW,2BhBkwM2B,QgBlwM3B,CAAX,Ch
BkwMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgB5wMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,
4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3
B,C;W;S;OA+EI,C;MhBqwMf,sC;QAII,OAAO,sBgBzwMP,eAAW,2BhBywM2B,QgBzwM3B,CAAX,ChBywMO
,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgBnxMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAA
A,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;
OA+EI,C;MhB4wMf,sC;QAII,OAAO,sBgBhxMP,eAAW,2BhBgxM2B,QgBhxM3B,CAAX,ChBgxMO,C;O;KAJ
X,C;4GAOA,yB;MAAA,wD;MgB1xMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAA
U,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;
MhBmxMf,sC;QAII,OAAO,sBgBvxMP,eAAW,2BhBuxM2B,QgBvxM3B,CAAX,ChBuxMO,C;O;KAJX,C;4GAO
A,yB;MAAA,wD;MgBjyMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,g
B;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhB0xMf,s
C;QAII,OAAO,sBgB9xMP,eAAW,2BhB8xM2B,QgB9xM3B,CAAX,ChB8xMO,C;O;KAJX,C;4GAOA,yB;MAA
A,wD;MgBxyMA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,
OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhBiyMf,sC;QAII,OA
AO,sBgBryMP,eAAW,2BhBqyM2B,QgBryM3B,CAAX,ChBqyMO,C;O;KAJX,C;4GAOA,yB;MAAA,wD;MgB/y
MA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,S
A+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;MhBwyMf,sC;QAII,OAAO,sBgB5yMP,
eAAW,2BhB4yM2B,QgB5yM3B,CAAX,ChB4yMO,C;O;KAJX,C;IAOA,qC;MAMI,OAAO,sBAAW,cAAX,C;K;IAGX,uC;
MAIoB,kBel1KQ,iB;Mfk1KA,iB;MAAxB,OAAiC,WiBx2M1B,WjBw2M0B,C;K;IAGrC,uC;MAIoB,kBe/0KQ,iB;
Mf+0KA,iB;MAAxB,OAAiC,WiB/2M1B,WjB+2M0B,C;K;IAGrC,uC;MAIoB,kBe50KQ,iB;Mf40KA,iB;MAAxB,
OAAiC,WiBt3M1B,WjBs3M0B,C;K;IAGrC,uC;MAIoB,kBAAT,oB;MAAiB,mB;MAAxB,OAAiC,WiB73M1B,W
jB63M0B,C;K;IAGrC,uC;MAIoB,kBev0KQ,iB;Mfu0KA,iB;MAAxB,OAAiC,WiBp4M1B,WjBo4M0B,C;K;IAGr
C,uC;MAIoB,kBep0KQ,iB;Mfo0KA,iB;MAAxB,OAAiC,WiB34M1B,WjB24M0B,C;K;IAGrC,uC;MAIoB,kBAA
T,oB;MAAiB,iB;MAAxB,OAAiC,WiBl5M1B,WjBk5M0B,C;K;IAGrC,2C;MAMI,OAAmC,OAA5B,2BAAgB,UA
AhB,CAA4B,C;K;IAGvC,6C;MAI0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBl6M9C,WjBk6M8C,C;K;IAGz
D,6C;MAI0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBz6M9C,WjBy6M8C,C;K;IAGzD,6C;MAI0B,kBAAf,y

B;MAAuB,iC;MAA9B,OAAqD,OiBh7M9C,WjBg7M8C,C;K;IAGzD,6C;MAI0B,kBAAf,yB;MAAuB,iC;MAA9B,
OAAqD,OiBv7M9C,WjBu7M8C,C;K;IAGzD,6C;MAI0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiB97M9C,W
jB87M8C,C;K;IAGzD,6C;MAI0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiBr8M9C,WjBq8M8C,C;K;IAGzD,
6C;MAI0B,kBAAf,yB;MAAuB,iC;MAA9B,OAAqD,OiB58M9C,WjB48M8C,C;K;IAGzD,6C;MAI0B,kBAAf,0B;
MAAuB,iC;MAA9B,OAAqD,OiBn9M9C,WjBm9M8C,C;K;IAkoCrD,gC;MAAQ,oBAAS,CAAT,EAAY,wBAAZ,
C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K
;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IA
MR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,
kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;IAMR,kC;MAAQ,oBAAS,CAAT,EAAY,0BAAZ,C;K;oFAEZ,qB;
MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OAAO,qBAAQ,C;K;sF
AGnB,qB;MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OAAO,qBAA
Q,C;K;sFAGnB,qB;MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OAAO,qBAAQ,C;K;sFAGnB,qB;MAKI,OA
AO,qBAAQ,C;K;0FAGnB,qB;MAKI,OAAO,EAxEA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,qB
AAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,q
BAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,
qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxE
A,qBAAQ,CAwER,C;K;4FAGX,qB;MAKI,OAAO,EAxEA,qBAAQ,CAwER,C;K;IAOP,kC;MAAQ,0BAAO,CAA
P,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CA
AP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,C
AAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IAMR,oC;MAAQ,0BAAO,CAAP,I;K;IA8TZ,yD;MAcI,sBAAS,c
AAT,EAAyB,SAAzB,EAAoC,OAApC,C;K;IAGJ,yD;MAYI,mBAAK,SAAL,EAAgB,OAAhB,C;MACA,qBAAQ,
SAAR,EAAmB,OAAnB,C;K;IAGJ,yD;MAYI,mBAAK,SAAL,EAAgB,OAAhB,C;MACA,sBAAQ,SAAR,EAAm
B,OAAnB,C;K;IAGJ,0D;MAYI,mBAAK,SAAL,EAAgB,OAAhB,C;MACA,sBAAQ,SAAR,EAAmB,OAAnB,C;K
;IAGJ,0D;MAYI,mBAAK,SAAL,EAAgB,OAAhB,C;MACA,sBAAQ,SAAR,EAAmB,OAAnB,C;K;IAGJ,0D;MA
YI,mBAAK,SAAL,EAAgB,OAAhB,C;MACA,sBAAQ,SAAR,EAAmB,OAAnB,C;K;IAGJ,0D;MAYI,mBAAK,S
AAL,EAAgB,OAAhB,C;MACA,sBAAQ,SAAR,EAAmB,OAAnB,C;K;IAGJ,0D;MAYI,mBAAK,SAAL,EAAgB,
OAAhB,C;MACA,sBAAQ,SAAR,EAAmB,OAAnB,C;K;IA2B0B,oD;MAAA,wB;QAAW,2BAAK,KAAL,C;O;K;
IAJzC,mC;MAII,OAAO,qBAAa,gBAAb,EAAmB,gCAAnB,C;K;IAOgB,8C;MAAA,wB;QAAW,wBAAK,KAAL,
C;O;K;IAJtC,gC;MAII,OAAO,+BAAU,gBAAV,GAAgB,6BAAhB,C;K;IAOgB,8C;MAAA,wB;QAAW,wBAAK,
KAAL,C;O;K;IAJtC,gC;MAII,OAAO,kBAAU,gBAAV,EAAgB,6BAAhB,C;K;IAOkB,kD;MAAA,wB;QAAW,0B
AAK,KAAL,C;O;K;IAJxC,kC;MAII,OAAO,kCAAY,gBAAZ,GAAkB,+BAAlB,C;K;IAOiB,gD;MAAA,wB;QAA
W,yBAAK,KAAL,C;O;K;IAJvC,iC;MAII,OAAO,kCAAW,gBAAX,GAAiB,8BAAjB,C;K;IAOe,4C;MAAA,wB;Q
AAW,uBAAK,KAAL,C;O;K;IAJrC,+B;MAII,OAAO,gCAAS,gBAAT,GAAe,4BAAf,C;K;IAOgB,8C;MAAA,wB;
QAAW,wBAAK,KAAL,C;O;K;IAJtC,gC;MAII,OAAO,kBAAU,gBAAV,EAAgB,6BAAhB,C;K;IAOiB,gD;MAA
A,wB;QAAW,yBAAK,KAAL,C;O;K;IAJvC,iC;MAII,OAAO,gCAAW,gBAAX,GAAiB,8BAAjB,C;K;wFA2CX,y
B;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;Q
AC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,CAA
U,OAAV,C;UOx+QnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QP8zPA,OA4qBO,W;O;KAxrBX,C;0FA
eA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,
C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/B,C
AAU,OAAV,C;UOv+QnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QP60PA,O4qBO,W;O;KAxrBX,C;0
FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EA
Ad,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0qB/
B,CAAU,OAAV,C;UOtgQnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QP41PA,O4qBO,W;O;KAxrBX,
C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,
EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C,SA0
qB/B,CAAU,OAAV,C;UOrhRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QP22PA,O4qBO,W;O;KAxr
BX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,E

AAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1qB8C
,SA0qB/B,CAAU,OAAV,C;UOpiRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QP03PA,OA4qBO,W;O;
KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAA
kB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA1q
B8C,SA0qB/B,CAAU,OAAV,C;UOnjRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QPy4PA,OA4qBO,W
;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,C
AAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,W
A1qB8C,SA0qB/B,CAAU,OAAV,C;UOlkRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QPw5PA,OA4qB
O,W;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,uC;QAWI,eAAiC,cAAlB,YAAY,gBAA
Z,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAAhB,iD;UAAgB,cAAhB,e;UAC
I,WA1qB8C,SA0qB/B,CAAU,OAAV,C;UOjlRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QPu6PA,OA4
qBO,W;O;KAxrBX,C;0FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA4qBA,oC;MAAA,gC;MA5qBA,uC;QAW
I,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAY,mBAAoB,QAApB,C;QAyqBH,Q;QAA
hB,iD;UAAgB,cAAhB,0B;UACI,WA1qB8C,SA0qB/B,CAAU,oBAAV,C;UOhmRnB,wBAAI,IAAK,MAAT,EAA
gB,IAAK,OAArB,C;;QPs7PA,OA4qBO,W;O;KAxrBX,C;4FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,y
C;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmQL,
Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aApQoC,WAoQhC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QAp
QhB,OAsQO,W;O;KAlRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAlB,YA
AY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAuB,QAAvB,C;QAoQL,Q;QAAhB,iD;UAAgB,cAAh
B,e;UACI,WAAY,aArQuC,WAqQnC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QArQhB,OAuQO,W;O;KAnRX,
C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,
EAAd,C;QAC1B,kBAAc,mBAAwB,QAAxB,C;QAqQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAtQwC,
WAsQpC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QAtQhB,OAwQO,W;O;KApRX,C;8FAeA,yB;MAAA,0D;M
AAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,m
BAAsB,QAAtB,C;QAsQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAvQsC,WAuQlC,CAAY,OAAZ,CA
AJ,EAA0B,OAA1B,C;;QAvQhB,OAyQO,W;O;KArRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC
;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAuB,QAAvB,C;QAuQL,Q;
QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aAxQuC,WAwQnC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QAxQ
hB,OA0QO,W;O;KAtRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAlB,YAA
Y,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAwB,QAAxB,C;QAwQL,Q;QAAhB,iD;UAAgB,cAAh
B,e;UACI,WAAY,aAzQwC,WAyQpC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QAzQhB,OA2QO,W;O;KAvRX,C
;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,E
AAd,C;QAC1B,kBAAc,mBAAyB,QAAzB,C;QAyQL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA1QyC,W
A0QrC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QA1QhB,OA4QO,W;O;KAxRX,C;8FAeA,yB;MAAA,0D;MAA
A,yD;MAAA,uE;MAAA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBA
A0B,QAA1B,C;QA0QL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA3Q0C,WA2QtC,CAAY,OAAZ,CAAJ,
EAA0B,OAA1B,C;;QA3QhB,OA6QO,W;O;KAzRX,C;8FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA6QA,oC;
MAAA,gC;MA7QA,yC;QAWI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAuB
,QAAvB,C;QA2QL,Q;QAAhB,iD;UAAgB,cAAhB,0B;UACI,WAAY,aA5QuC,WA4QnC,CAAY,oBAAZ,CAAJ,
EAA0B,oBAA1B,C;;QA5QhB,oBAA1B,C;;QA5QhB,OA8QO,W;O;KA1RX,C;8FAeA,yB;MAAA,0D;MAAA,yD;M
AAA,uE;MAAA,yD;QAUI,eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QA
ApB,C;QA6QL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,aA9QoC,WA8QhC,CAAY,OAAZ,CAAJ,EAA0
B,OAA1B,C;;QA9QhB,OAgRO,W;O;KA3RX,C;+FAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,
eAAiC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAiRL,Q;QAAhB
,iD;UAAgB,cAAhB,e;UACI,WAAY,aAlRoC,WAkRhC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;QAlRhB,OA
oRO,W;O;KA3RX,C;+FAcA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAlB,YAAY,gBA
AZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA+QL,Q;QAAhB,iD;U
AAgB,cAAhB,e;UACI,WAAY,aAlRoC,WAkRhC,CAAY,OAAZ,CAAJ,EAA0B,OAA1B,C

;;QAlRhB,OAoRO,W;O;KA/RX,C;+FAcA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAl
B,YAAY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAmRL,Q;QAAhB,iD;UAAgB,
cAAhB,e;UACI,WAAY,aApRoC,WAoRhC,CAAY,OAAZ,CAAJ,EApRiD,cAoRvB,CAAe,OAAf,CAA1B,C;;QAp
RhB,OAsRO,W;O;KAjSX,C;+FAcA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAlB,YA
AY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAqRL,Q;QAAhB,iD;UAAgB,cAAh
B,e;UACI,WAAY,aAtRoC,WAsRhC,CAAY,OAAZ,CAAJ,EAtRiD,cAsRvB,CAAe,OAAf,CAA1B,C;;QAtRhB,O
AwRO,W;O;KAnSX,C;+FAcA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAlB,YAAY,gB
AAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAuRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UA
CI,WAAY,aAxRoC,WAwRhC,CAAY,OAAZ,CAAJ,EAxRiD,cAwRvB,CAAe,OAAf,CAA1B,C;;QAxRhB,OA0R
O,W;O;KArSX,C;+FAcA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAlB,YAAY,gBAAZ,
CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QAyRL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,W
AAY,aA1RoC,WA0RhC,CAAY,OAAZ,CAAJ,EA1RiD,cA0RvB,CAAe,OAAf,CAA1B,C;;QA1RhB,OA4RO,W;O
;KAvSX,C;+FAcA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAiC,cAAlB,YAAY,gBAAZ,CAAk
B,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA2RL,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAAY,a
A5RoC,WA4RhC,CAAY,OAAZ,CAAJ,EA5RiD,cA4RvB,CAAe,OAAf,CAA1B,C;;QA5RhB,OA8RO,W;O;KAzS
X,C;+FAcA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA8RA,oC;MAAA,gC;MA9RA,yD;QAUI,eAAiC,cAAlB,YA
AY,gBAAZ,CAAkB,EAAc,EAAd,C;QAC1B,kBAAc,mBAAoB,QAApB,C;QA6RL,Q;QAAhB,iD;UAAgB,cAAh
B,0B;UACI,WAAY,aA9RoC,WA8RhC,CAAY,oBAAZ,CAAJ,EA9RiD,cA8RvB,CAAe,oBAAf,CAA1B,C;;QA9R
hB,OAgSO,W;O;KA3SX,C;gGAcA,+C;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QA
CI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAAA0B,OAA1B,C;;MAEhB,OAAO,W;K;kGAGX,+C;MAUoB,Q;MAAhB
,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAAA0B,OAA1B,C;;
MAEhB,OAAO,W;K;kGAGX,+C;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,W
AAY,aAAI,YAAY,OAAZ,CAAJ,EAAA0B,OAA1B,C;;MAEhB,OAAO,W;K;iGAGX,+C;MAUoB,Q;MAAhB,wB
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAAA0B,OAA1B,C;;MAEh
B,OAAO,W;K;kGAGX,+C;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,a
AAI,YAAY,OAAZ,CAAJ,EAAA0B,OAA1B,S;AAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,O
AAZ,CAAJ,EAAA0B,OAA1B,C;;MAEhB,OAAO,W;K;kGAGX,+C;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;Q
AAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAAA0B,OAA1B,C;;MAEhB,OAAO,W;K;kG
AGX,+C;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAA
Z,CAAJ,EAAA0B,OAA1B,C;;MAEhB,OAAO,W;K;iGAGX,yB;MAAA,oC;MAAA,gC;MAAA,sD;QAUoB,Q;QA
AhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,U;AAgB,SAAhB,O;UAACI,WAAY,aAAI,YAAY,oBAAZ,CAAJ,EAA
A0B,oBAAf,CAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;kGAgBA,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;
QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAAAe,eAAe,OAAf,CAA1B,C;;MAEhB,O
AAO,W;K;kGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,
YAAY,OAAZ,CAAJ,EAAA0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;kGAGX,+D;MAUoB,Q;MAAhB,w
BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAAA0B,eAAe,OAAf,CA
A1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;
QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAAA0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;M
AUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAA
A0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAA
gB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YAAY,OAAZ,CAAJ,EAAA0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO
,W;K;mGAGX,+D;MAUoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,YA
AY,OAAZ,CAAJ,EAAA0B,eAAe,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;mGAGX,yB;MAAA,oC;MAAA,gC;MA
AA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,U;AAgB,SAAhB,O;UAACI,WAAY,aAAI,YA
AY,oBAAZ,CAAJ,EAAA0B,eAAe,oBAAf,CAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;2FAgBA,6C;MASoB,Q;
MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAAV,C;QOx+QnB,wBAAI,I

AAK,MAAT,EAAgB,IAAK,OAArB,C;;MP0+QA,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB
,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAAV,C;QOv/QnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,O
AArB,C;;MPy/QA,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;
QACI,WAAe,UAAU,OAAV,C;QOtgRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MPwgRA,OAAO,W;
K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAAV,
C;QOrhRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MPuhRA,OAAO,W;K;8FAGX,6C;MASoB,Q;MA
AhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAAV,C;QOpiRnB,wBAAI,IAAK,M
AAT,EAAgB,IAAK,OAArB,C;;MPsiRA,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QA
AgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAAV,C;QOnjRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C
;;MPqjRA,OAAO,W;K;8FAGX,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,
WAAe,UAAU,OAAV,C;QOlkRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MPokRA,OAAO,W;K;8FAG
X,6C;MASoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAe,UAAU,OAAV,C;QOjlR
nB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MPmlRA,OAAO,W;K;8FAGX,yB;MAAA,oC;MAAA,gC;M
AAA,oD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAe,UAAU,oBA
AV,C;UOhmRnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QPkmRA,OAAO,W;O;KAZX,C;gGAeA,yB;
MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAYI,aAAa,mBAAsC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAA
d,CAAtC,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CA
Ab,C;;QAtJhB,OAAuB,M;O;KAb3B,C;kGAgBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,m
BAAyC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAAzC,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB
,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0
D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAA0C,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAA1C
,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QA
tJhB,OAAuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAAwC,c
AAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAAxC,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,a
AAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0D;MAA
A,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAAyC,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAAzC,C;QAsJ
G,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OA
AuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAA0C,cAAlB,Y
AAY,gBAAZ,CAAkB,EAAc,EAAd,CAA1C,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,O
AAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;kGAiBA,yB;MAAA,0D;MAAA,yD;M
AAA,uE;MAAA,2C;QAaI,aAAa,mBAA2C,cAAlB,YAAY,gBAAZ,CAAkB,EAAc,EAAd,CAA3C,C;QAsJG,Q;Q
AAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,
M;O;KAd3B,C;kGAiBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAA4C,cAAlB,YAAY,
gBAAZ,CAAkB,EAAc,EAAd,CAA5C,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,e;UArJuB,MAsJP,aAAI,OAAJ,E
AtJe,aAsJF,CAAc,OAAd,CAAb,C;;QAtJhB,OAAuB,uD;MAAA,0D;MAAA,
yD;MAAA,uE;MAwJA,oC;MAAA,gC;MAxJA,2C;QAaI,aAAa,mBAA2D,cAApC,YAAiB,aAAL,gBAAK,EAAa,
GAAb,CAAoC,EAAc,EAAd,CAA3D,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,0B;UArJuB,MAsJP,aAAI,OAAJ,0
B;UApJuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,oBAAd,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;oGAiBA,yB;
MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAaI,aAAa,mBAA4D,cAApC,YAAiB,aAAL,gBAAK,EAAa,GAAb
,CAAoC,EAAc,EAAd,CAA5D,C;QAsJG,Q;QAAhB,iD;UAAgB,cAAhB,0B;UArJuB,MAsJP,aAAI,OAAJ,0B;UAp
JuB,MAsJP,aAAI,OAAJ,EAtJe,aAsJF,CAAc,oBAAd,CAAb,C;;QAtJhB,OAAuB,M;O;KAd3B,C;MAEhB,OAAO,W
;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,E
AAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,
cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MA
WoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,
CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q
ACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wB
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,O
AAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q
ACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,iD;MAWoB,Q;MAAhB,w

BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;sGAGX,yB;MAAA,oC;MAAA,gC;MAAA,wD;QAWoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,c AAhB,UAAgB,SAAhB,O;UAACI,WAAY,aAAI,oBAAJ,EAAa,cAAc,oBAAd,CAAb,C;;QAEhB,OAAO,W;O;KAd X,C;IAiBA,8C;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAE hB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,IA AJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY ,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QA CI,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,S AAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAAb,gB;QAA a,WAAA,SAAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,wBAAa,SAA b,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB,Q;MAAb,w BAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gD;MAIiB, Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAb,UAAa,SAAb,O;QACI,WAAY,WAAI,iBAAJ,C;;MAEhB,OAAO,W;K; IAGX,8B;MAII,OAAO,wBAAa,eAAW,YAAY,gBAAZ,CAAX,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAc, YAAY,gBAAZ,CAAd,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAe,YAAY,gBAAZ,CAAf,CAAb,C;K;IAGX ,gC;MAII,OAAO,0BAAa,eAAa,YAAY,gBAAZ,CAAb,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAc,YAAY, gBAAZ,CAAd,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAe,YAAY,gBAAZ,CAAf,CAAb,C;K;IAGX,gC;M AII,OAAO,0BAAa,eAAgB,YAAY,gBAAZ,CAAhB,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAiB,YAAY,g BAAZ,CAAjB,CAAb,C;K;IAGX,gC;MAII,OAAO,0BAAa,eAAc,YAAiB,eAAL,gBAAK,EAAa,GAAb,CAAjB,C AAd,CAAb,C;K;IAGX,2B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UA AK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;;UACa,qBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,I AAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C; UAAL,K;;UACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;a ACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;;UACa,uBAAL,SAAK,C; UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA, C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;;UACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;M AIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAA P,C;UAAL,K;;UACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN ,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;;UACa,uBAAL,SAA K,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;a ACA,C;UAAK,cAAO,UAAK,CAAL,C;UAAP,C;UAAL,K;;UACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B; MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,C AAP,C;UAAL,K;;UACa,uBAAL,SAAK,C;UAHV,K;;MAAP,W;K;IAOJ,6B;MAIiB,IAAN,I;MAAA,QAAM,gBA AN,C;aACH,C;UAAK,kB;UAAL,K;aACA,C;UAAK,cAAO,UAAK,CAAL,CAAP,C;UAAL,K;;UACa,uBAAL,S AAK,C;UAHV,K;;MAAP,W;K;IAOJ,kC;MAII,OAAO,iBAAe,aAAL,SAAK,CAAf,C;K;IAGX,oC;MAKiB,Q;MA Db,WAAW,iBAAgB,gBAAhB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,IAAK,WAAI,IAAJ ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAiB,gBAAjB,C;MACX,wBAAa,SAAb,gB;QAA a,WAAA,SAAb,M;QAAmB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBA Ae,gBAAf,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO, I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAgB,gBAAhB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M; QAAmB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAiB,gBAAjB,C;M ACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC; MAKiB,Q;MADb,WAAW,iBAAkB,gBAAlB,C;MACX,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,IAAK, WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,WAAW,iBAAmB,gBAAnB,C;MACX,wBAAa,SA Ab,gB;QAAa,WAAA,SAAb,M;QAAmB,IAAK,WAAI,IAAJ,C;;MACxB,OAAO,I;K;IAGX,oC;MAKiB,Q;MADb,W AAW,iBAAgB,gBAAhB,C;MACX,wBAAa,WAAb,gB;QAAa,WAAb,UAAa,SAAb,O;QAAmB,IAAK,WAAI,iBAA J,C;;MACxB,OAAO,I;K;IAGX,0B;MAMiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aAC A,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;UAAL,K;;UACQ,+BAAa,qBAAiB,YAAY,gBAAZ,CAAjB,C;

CAAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,
K;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;UAAL,K;;UACQ,iCAAa,qBAAoB,YAAY,gBAAZ,CAApB,C
AAb,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K
;aACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;UAAL,K;;UACQ,iCAAa,qBAAqB,YAAY,gBAAZ,CAArB,CA
Ab,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;a
ACA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;UAAL,K;;UACQ,iCAAa,qBAAmB,YAAY,gBAAZ,CAAnB,CAA
b,C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aA
CA,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;UAAL,K;;UACQ,iCAAa,qBAAoB,YAAY,gBAAZ,CAApB,CAAb,
C;UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aAC
A,C;UAAK,aAAM,UAAK,CAAL,CAAN,C;UAAL,K;;UACQ,iCAAa,qBAAqB,YAAY,gBAAZ,CAArB,CAAb,C;
UAHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,
C;UAAK,aAAM,UAAK,CAAL,CAAN,C;UAAL,K;;UACQ,iCAAa,qBAAsB,YAAY,gBAAZ,CAAtB,CAAb,C;U
AHL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C
;UAAK,aAAM,UAAK,CAAL,CAAN,C;UAAL,K;;UACQ,iCAAa,qBAAuB,YAAY,gBAAZ,CAAvB,CAAb,C;UA
HL,K;;MAAP,W;K;IAOJ,4B;MAMiB,IAAN,I;MAAA,QAAM,gBAAN,C;aACH,C;UAAK,iB;UAAL,K;aACA,C;
UAAK,aAAM,sBAAK,CAAL,EAAN,C;UAAL,K;;UACQ,iCAAa,qBAAoB,YAAiB,eAAL,gBAAK,EAAa,GAAb,
CAAjB,CAApB,CAAb,C;UAHL,K;;MAAP,W;K;oFAOJ,yB;MAAA,+D;MAwaA,gD;MAxaA,uC;QAMW,kBAA
U,gB;QAsaD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAva6B,SAualB,CAAU,OAAV,C;UACC,OAAZ,WAAY,E
AAO,IAAP,C;;QAxahB,OA0aO,W;O;KAhbX,C;sFASA,yB;MAAA,+D;MA0aA,gD;MA1aA,uC;QAMW,kBAAU,
gB;QAwaD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAza6B,SAyalB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EA
AO,IAAP,C;;QA1ahB,OA4aO,W;O;KAlbX,C;sFASA,yB;MAAA,+D;MA4aA,gD;MA5aA,uC;QAMW,kBAAU,g
B;QA0aD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA3a6B,SA2alB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAA
O,IAAP,C;;QA5ahB,OA8aO,W;O;KApbX,C;sFASA,yB;MAAA,+D;MA8aA,gD;MA9aA,uC;QAMW,kBAAU,gB;
QA4aD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WA7a6B,SA6alB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,
IAAP,C;;QA9ahB,OAgbO,W;O;KAtbX,C;sFASA,yB;MAAA,+D;MAgbA,gD;MAhbA,uC;QAMW,kBAAU,gB;QAg
bD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAjb6B,SAiblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP
,C;;QAlbhB,OAobO,W;O;KA1bX,C;sFASA,yB;MAAA,+D;MAobA,gD;MApbA,uC;QAMW,kBAAU,gB;QAkbD,
Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAnb6B,SAmblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,
C;;QApbhB,OAsbO,W;O;KA5bX,C;sFASA,yB;MAAA,+D;MAsbA,gD;MAtbA,uC;QAMW,kBAAU,gB;QAobD,
Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WArb6B,SAqblB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;
;QAtbhB,OAwbO,W;O;KA9bX,C;sFASA,yB;MAAA,+D;MAwbA,oC;MAAA,gD;MAAA,gC;MAxbA,uC;QAMW
,kBAAU,gB;QAsbD,Q;QAAhB,iD;UAAgB,cAAhB,0B;UACI,WAvb6B,SAublB,CAAU,oBAAV,C;UACC,OAAZ,
WAAY,EAAO,IAAP,C;;QAxbhB,OA0bO,W;O;KAhcX,C;sFASA,yB;MAAA,+D;MA0bA,gD;MA1bA,uC;QAUW
,kBAAU,gB;QAwbD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,WAzb6B,SAyblB,CAAU,OAAV,C;UACC,OAAZ,
WAAY,EAAO,IAAP,C;;QA1bhB,OA4bO,W;O;KAtcX,C;kGAaA,yB;MAAA,+D;MAsJA,gD;MAtJA,uC;QAYW,
kBAAiB,gB;QAqJR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WAtJoC,SAssJzB,EAAU,cAAV,EAA
U,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAvJhB,OAyJO,W;O;KArKX,C;kGAaA,
yB;MAAA,+D;MAyJA,gD;MAzJA,uC;QAYW,kBAAiB,gB;QAwJR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB
,e;UACI,WAzJoC,SAyyJzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAA
P,C;;QA1JhB,OA4JO,W;O;KAxKX,C;kGAaA,yB;MAAA,+D;MA4JA,gD;MA5JA,uC;QAYW,kBAAiB,gB;QA2JR,
gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WA5JoC,SA4sJzB,EAAU,cAAV,EAAU,sBAAV,WAAm
B,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA7JhB,OA+JO,W;O;KA3KX,C;kGAaA,yB;MAAA,+D;MA+J
A,gD;MA/JA,uC;QAYW,kBAAiB,gB;QA8JR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WA/JoC,SA
+yJzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhKhB,OAkKO,
W;O;KA9KX,C;kGAaA,yB;MAAA,+D;MAkKA,gD;MAlKA,uC;QAYW,kBAAiB,gB;QAiKR,gB;QADhB,YAAY,C;
QACZ,iD;UAAgB,cAAhB,e;UACI,WAlKoC,SAksJzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,O
AAZ,WAAY,EAAO,IAAP,C;;QAnKhB,OAqKO,W;O;KAjLX,C;

OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAnKhB,OAqKO,W;O;KAjLX,C;oGAeA,yB;MAAA,+D;MAq
KA,gD;MArKA,uC;QAYW,kBAAiB,gB;QAoKR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WAr
KoC,SAqKzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAtKh
B,OAwKO,W;O;KApLX,C;oGAeA,yB;MAAA,+D;MAwKA,gD;MAxKA,uC;QAYW,kBAAiB,gB;QAuKR,gB;Q
ADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WAxKoC,SAwKzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,
OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAzKhB,OA2KO,W;O;KAvLX,C;oGAeA,yB;MAAA,+D;MA
2KA,gD;MA3KA,uC;QAYW,kBAAiB,gB;QA0KR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,e;UACI,WA
3KoC,SA2KzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5K
hB,OA8KO,W;O;KA1LX,C;oGAeA,yB;MAAA,+D;MA8KA,oC;MAAA,gD;MAAA,gC;MA9KA,uC;QAYW,kBA
AiB,gB;QA6KR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,cAAhB,0B;UACI,WA9KoC,SA8KzB,EAAU,cAAV,EA
AU,sBAAV,WAAmB,oBAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA/KhB,OAiLO,W;O;KA7LX,C;oGAe
A,yB;MAAA,+D;MAiLA,gD;MAjLA,uC;QAYW,kBAAiB,gB;QAgLR,gB;QADhB,YAAY,C;QACZ,iD;UAAgB,c
AAhB,e;UACI,WAjLoC,SAiLzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAA
O,IAAP,C;;QAlLhB,OAoLO,W;O;KAhMX,C;sGAeA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAA
Y,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAA
mB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;uGAkBA,yB;MAAA,gD;M
AAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WA
AW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,
W;O;KAfX,C;wGAkBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAh
B,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAA
Z,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;wGAkBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M
;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAAV,EAAU,s
BAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;wGAkBA,yB;
MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB
,M;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA
EhB,OAAO,W;O;KAfX,C;wGAkBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wB
AAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;
UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;wGAkBA,yB;MAAA,gD;MAAA,oD;QAW
oB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,WAAU,c
AAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAA
O,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;wGAkBA,yB;MAAA,oC;MAAA,gD;MAAA,gC;MAAA,oD;QAWoB,U
ACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,WAAW,WAA
U,cAAV,EAAU,sBAAV,WAAmB,oBAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAf
X,C;wGAkBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UA
AgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,
EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,UAAhB,wBAAgB,SA
AhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OA
AZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,UAAhB,w
BAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C
;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIo
B,UAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,cAAV,EAAU,sBAAV,WAA
mB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MA
AA,oD;QAIoB,UAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,cAAV,EAAU,s
BAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;
MAAA,gD;MAAA,oD;QAIoB,UAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,c
AAV,EAAU,sBAAV,WAAmB,OAAnB,C;UAC
C,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;Q
AAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,UAAU,SAAhB,O;UACI,WAAW,
UAAU,cAAV,EAAU,sBAAV,WAAmB,oBAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;
KAf
X,C;wGAkBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACZ,wBAAgB,SAAhB,gB;UA
AgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,
EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;uFAkBA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,
SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IA
AP,C;;Q
AEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAg
B,cAAA,SAAhB,M;UACI,WAAW,UAAU,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O
;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M
;UACI,WAAW,UAAU,UAAU,OAAV,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAI
oB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,UAAU,OAAV,C;UACC,
OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QA
AhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,UAAU,OAAV,C;UACC,OAAZ,WA
AY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAA
gB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,UAAU,OAAV,C;UAC
C,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;Q

AAO,IAAP,C;;QAEhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,S
AAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA
EhB,OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,
cAAA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;K
ARX,C;0FAWA,yB;MAAA,oC;MAAA,gD;MAAA,gC;MAAA,oD;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAA
gB,cAAhB,UAAgB,SAAhB,O;UACI,WAAW,UAAU,oBAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,
OAAO,W;O;KARX,C;0FAWA,yB;MAAA,gD;MAAA,oD;QAQoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cA
AA,SAAhB,M;UACI,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KA
ZX,C;oFAeA,yB;MAAA,wE;MAiOA,+D;MAjOA,yC;QASW,kBAAU,oB;QAiOD,Q;QAAhB,iD;UAAgB,cAAhB,
e;UACI,UAlOiD,WAkOvC,CAAY,OAAZ,C;UOp5UP,U;UADP,YPs5Ue,WOt5UH,WPs5UwB,GOt5UxB,C;UAC
L,IAAI,aAAJ,C;YACH,aPo5UuC,gB;YAA5B,WOn5UX,aPm5UgC,GOn5UhC,EAAS,MAAT,C;YACA,e;;YAEA,
c;;UPg5UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QApOT,OAsOO,W;O;KA/OX,C;sFAYA,yB;MAAA,wE;MAsOA,+
D;MAtOA,yC;QASW,kBAAU,oB;QAsOD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAvOoD,WAuO1C,CAAY,O
AAZ,C;UOr6UP,U;UADP,YPu6Ue,WOv6UH,WPu6UwB,GOv6UxB,C;UACL,IAAI,aAAJ,C;YACH,aPq6UuC,gB
;YAA5B,WOp6UX,aPo6UgC,GOp6UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPi6UA,iB;UACA,IAAK,WAAI,O
AAJ,C;;QAzOT,OA2OO,W;O;KApPX,C;sFAYA,yB;MAAA,wE;MA2OA,+D;MA3OA,yC;QASW,kBAAU,oB;Q
A2OD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA5OqD,WA4O3C,CAAY,OAAZ,C;UOt7UP,U;UADP,YPw7Ue,
WOx7UH,WPw7UwB,GOx7UxB,C;UACL,IAAI,aAAJ,C;YACH,aPs7UuC,gB;YAA5B,WOr7UX,aPq7UgC,GOr7
UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPk7UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9OT,OAgPO,W;O;KAz
PX,C;sFAYA,yB;MAAA,wE;MAgPA,+D;MAhPA,yC;QASW,kBAAU,oB;QAgPD,Q;QAAhB,iD;UAAgB,cAAhB
,e;UACI,UAjPmD,WAiPzC,CAAY,OAAZ,C;UOv8UP,U;UADP,YPy8Ue,WOz8UH,WPy8UwB,GOz8UxB,C;UA
CL,IAAI,aAAJ,C;YACH,aPu8UuC,gB;YAA5B,WOt8UX,aPs8UgC,GOt8UhC,EAAS,MAAT,C;YACA,e;;YAEA,c
;;UPm8UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAnPT,OAqPO,W;O;KA9PX,C;sFAYA,yB;MAqPA,+
D;MArPA,yC;QASW,kBAAU,oB;QAqPD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAtPoD,WAsP1C,CAAY,OA
AZ,C;UOx9UP,U;UADP,YP09Ue,WO19UH,WP09UwB,GO19UxB,C;UACL,IAAI,aAAJ,C;YACH,aPw9UuC,gB;
YAA5B,WOv9UX,aPu9UgC,GOv9UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPo9UA,iB;UACA,IAAK,WAAI,O
AAJ,C;;QAxPT,OA0PO,W;O;KAnQX,C;sFAYA,yB;MAAA,wE;MA0PA,+D;MA1PA,yC;QASW,kBAAU,oB;QA
0PD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA3PqD,WA2P3C,CAAY,OAAZ,C;UOz+UP,U;UADP,YP2+Ue,WO
3+UH,WP2+UwB,GO3+UxB,C;UACL,IAAI,aAAJ,C;YACH,aPy+UuC,gB;YAA5B,WOx+UX,aPw+UgC,GOx+U
hC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPq+UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA7PT,OA+PO,W;O;KAxQ
X,C;sFAYA,yB;MAAA,wE;MA+PA,+D;MA/PA,yC;QASW,kBAAU,oB;QA+PD,Q;QAAhB,iD;UAAgB,cAAhB,e
;UACI,UAhQsD,WAgQ5C,CAAY,OAAZ,C;UO1/UP,U;UADP,YP4/Ue,WO5/UH,WP4/UwB,GO5/UxB,C;UACL,
IAAI,aAAJ,C;YACH,aP0/UuC,gB;YAA5B,WOz/UX,aPy/UgC,GOz/UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP
s/UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAlQT,OAoQO,W;O;KA7QX,C;sFAYA,yB;MAAA,wE;MAoQA,+D;M
ApQA,yC;QASW,kBAAU,oB;QAoQD,Q;QAAhB,iD;UAAgB,cAAhB,0B;UACI,UA1QoD,WA0Q1C,CAAY,oBA
AZ,C;UO5hVP,U;UADP,YP8hVe,WO9hVH,WP8hVwB,GO9hVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4hVuC,gB;
YAA5B,WO3hVX,aP2hVgC,GO3hVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwhVA,iB;UACA,IAAK,WAjRyD,
cAiRrD,CAAe,OAAf,CAAJ,C;;QAjRT,OAmRO,W;;O;KA7RX,C;sFAaA,yB;MAAA,wE;MAmRA,+D;MAnRA,y
D;QAUW,kBAAU,oB;QAmRD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UApRiD,WAoRvC,CAAY,OAAZ,C;UOh
kVP,U;UADP,YPkkVe,WOlkVH,WPkkVwB,GOlk
VxB,C;UACL,IAAI,aAAJ,C;YACH,aPgkVuC,gB;YAA5B,WO/jVX,aP+jVgC,GO/jVhC,EAAS,MAAT,C;YACA,e

;;YAEA,c;;UP4jVA,iB;UACA,IAAK,WAtRyD,cAsRrD,CAAe,OAAf,CAAJ,C;;QAtRT,OAwRO,W;O;KAlSX,C;u
FAaA,yB;MAAA,wE;MAwRA,+D;MAxRA,yD;QAUW,kBAAU,oB;QAwRD,Q;QAAhB,iD;UAAgB,cAAhB,e;U
ACI,UAzRiD,WAyRvC,CAAY,OAAZ,C;UOllVP,U;UADP,YPolVe,WOplVH,WPolVwB,GOplVxB,C;UACL,IA
AI,aAAJ,C;YACH,aPklVuC,gB;YAA5B,WOjlVX,aPilVgC,GOjlVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP8kV
A,iB;UACA,IAAK,WA3RyD,cA2RrD,CAAe,OAAf,CAAJ,C;;QA3RT,OA6RO,W;O;KAvSX,C;uFAaA,yB;MAA
A,wE;MA6RA,+D;MA7RA,yD;QAUW,kBAAU,oB;QA6RD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA9RiD,W
A8RvC,CAAY,OAAZ,C;UOpmVP,U;UADP,YPsmVe,WOtmVH,WPsmVwB,GOtmVxB,C;UACL,IAAI,aAAJ,C;
YACH,aPomVuC,gB;YAA5B,WOnmVX,aPmmVgC,GOnmVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgmVA,i
B;UACA,IAAK,WAhSyD,cAgSrD,CAAe,OAAf,CAAJ,C;;QAhST,OAkSO,W;O;KA5SX,C;uFAaA,yB;MAAA,wE
;MAkSA,+D;MAlSA,yD;QAUW,kBAAU,oB;QAkSD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAnSiD,WAmSvC,
CAAY,OAAZ,C;UOtnVP,U;UADP,YPwnVe,WOxnVH,WPwnVwB,GOxnVxB,C;UACL,IAAI,aAAJ,C;YACH,aP
snVuC,gB;YAA5B,WOrnVX,aPqnVgC,GOrnVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPknVA,iB;UACA,IAAK
,WArSyD,cAqSrD,CAAe,OAAf,CAAJ,C;;QArST,OAuSO,W;O;KAjTX,C;uFAaA,yB;MAAA,wE;MAuSA,+D;M
AvSA,yD;QAUW,kBAAU,oB;QAuSD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAxSiD,WAwSvC,CAAY,OAAZ,
C;UOxoVP,U;UADP,YP0oVe,WO1oVH,WP0oVwB,GO1oVxB,C;UACL,IAAI,aAAJ,C;YACH,aPwoVuC,gB;YA
A5B,WOvoVX,aPuoVgC,GOvoVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPooVA,iB;UACA,IAAK,WA1SyD,cA
0SrD,CAAe,OAAf,CAAJ,C;;QA1ST,OA4SO,W;O;KAtTX,C;uFAaA,yB;MAAA,wE;MA4SA,+D;MA5SA,yD;QA
UW,kBAAU,oB;QA4SD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UA7SiD,WA6SvC,CAAY,OAAZ,C;UO1pVP,U;
UADP,YP4pVe,WO5pVH,WP4pVwB,GO5pVxB,C;UACL,IAAI,aAAJ,C;YACH,aP0pVuC,gB;YAA5B,WOzpVX,
aPypVgC,GOzpVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPspVA,iB;UACA,IAAK,WA/SyD,cA+SrD,CAAe,OA
Af,CAAJ,C;;QA/ST,OAiTO,W;O;KA3TX,C;uFAaA,yB;MAAA,wE;MAiTA,+D;MAjTA,yD;QAUW,kBAAU,oB;
QAiTD,Q;QAAhB,iD;UAAgB,cAAhB,e;UACI,UAlTiD,WAkTvC,CAAY,OAAZ,C;UO5qVP,U;UADP,YP8qVe,
WO9qVH,WP8qVwB,GO9qVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4qVuC,gB;YAA5B,WO3qVX,aP2qVgC,GO3q
VhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwqVA,iB;UACA,IAAK,WApTyD,cAoTrD,CAAe,OAAf,CAAJ,C;;Q
ApTT,OAsTO,W;O;KAhUX,C;uFAaA,yB;MAAA,wE;MAsTA,oC;MAAA,+D;MAAA,gC;MAtTA,yD;QAUW,kB
AAU,oB;QAsTD,Q;QAAhB,iD;UAAgB,cAAhB,0B;UACI,UAvTiD,WAuTvC,CAAY,oBAAZ,C;UO9rVP,U;UAD
P,YPgsVe,WOhsVH,WPgsVwB,GOhsVxB,C;UACL,IAAI,aAAJ,C;YACH,aP8rVuC,gB;YAA5B,WO7rVX,aP6rV
gC,GO7rVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0rVA,iB;UACA,IAAK,WAzTyD,cAyTrD,CAAe,oBAAf,C
AAJ,C;;QAzTT,OA2TO,W;O;KArUX,C;wFAaA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB
,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOp5UP,U;UADP,YPs5Ue,WOt5UH,WPs5UwB,
GOt5UxB,C;UACL,IAAI,aAAJ,C;YACH,aPo5UuC,gB;YAA5B,WOn5UX,aPm5UgC,GOn5UhC,EAAS,MAAT,C;
YACA,e;;YAEA,c;;UPg5UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,
+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,
C;UOr6UP,U;UADP,YPu6Ue,WOv6UH,WPu6UwB,GOv6UxB,C;UACL,IAAI,aAAJ,C;YACH,aPq6UuC,gB;YA
A5B,WOp6UX,aPo6UgC,GOp6UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPi6UA,iB;UACA,IAAK,WAAI,OAAJ
,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;U
AAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOt7UP,U;UADP,YPw7Ue,WOx7UH,WPw7UwB,GOx7
UxB,C;UACL,IAAI,aAAJ,C;YACH,aPs7UuC,gB;YAA5B,WOr7UX,aPq7UgC,GOr7UhC,EAAS,MAAT,C;YACA
,e;;YAEA,c;;UPk7UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;M
AAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO
v8UP,U;UADP,YPy8Ue,WOz8UH,WPy8UwB,GOz8UxB,C;UACL,IAAI,aAAJ,C;YACH,aPu8UuC,gB;YAA5B,
WOt8UX,aPs8UgC,GOt8UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPm8UA,iB;UACA,IAAK,WAAI,OAAJ,C;;Q
AET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB
,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOx9UP,U;UADP,YP09Ue,WO19UH,WP09UwB,GO19UxB,C
;UACL,IAAI,aAAJ,C;YACH,aPw9UuC,gB;YAA5B,WOv9UX,aPu9UgC,GOv9UhC,EAAS,MAAT,C;YACA,e;;Y
AEA,c;;UPo9UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,
sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOz+UP,
U;UADP,YP2+Ue,WO3+UH,WP2+UwB,GO3+UxB,C;UACL,IAAI,aAAJ,C;YACH,aPy+UuC,gB;YAA5B,WOx+

UX,aPw+UgC,GOx+UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPq+UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET
,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAA
A,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO1/UP,U;UADP,YP4/Ue,WO5/UH,WP4/UwB,GO5/UxB,C;UACL,
IAAI,aAAJ,C;YACH,aP0/UuC,gB;YAA5B,WOz/UX,aPy/UgC,GOz/UhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP
s/UA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;MAAA,+D;MAAA,sD;QASoB,
Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO3gVP,U;UADP,Y
P6gVe,WO7gVH,WP6gVwB,GO7gVxB,C;UACL,IAAI,aAAJ,C;YACH,aP2gVuC,gB;YAA5B,WO1gVX,aP0gVg
C,GO1gVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPugVA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O
;KAdX,C;0FAiBA,yB;MAAA,oC;MAAA,+D;MAAA,gC;MAAA,sD;QASoB,Q;QAAhB,wBAAgB,SAAhB,gB;U
AAgB,cAAhB,UAAgB,SAAhB,O;UACI,UAAU,YAAY,oBAAZ,C;UO5hVP,U;UADP,YP8hVe,WO9hVH,WP8hV
wB,GO9hVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4hVuC,gB;YAA5B,WO3hVX,aP2hVgC,GO3hVhC,EAAS,MAA
T,C;YACA,e;;YAEA,c;;UPwhVA,iB;UACA,IAAK,WAAI,oBAAJ,C;;QAET,OAAO,W;O;KAdX,C;0FAiBA,yB;M
AAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,O
AAZ,C;UO9iVP,U;UADP,YPgjVe,WOhjVH,WPgjVwB,GOhjVxB,C;UACL,IAAI,aAAJ,C;YACH,aP8iVuC,gB;Y
AA5B,WO7iVX,aP6iVgC,GO7iVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0iVA,iB;UACA,IAAK,WAAI,eAAe,
OAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;0FAkBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,S
AAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOhkVP,U;UADP,YPkkVe,WOlkVH,WPkk
VwB,GOlkVxB,C;UACL,IAAI,aAAJ,C;YACH,aPgkVuC,gB;YAA5B,WO/jVX,aP+jVgC,GO/jVhC,EAAS,MAAT
,C;YACA,e;;YAEA,c;;UP4jVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;2FAk
BA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,
YAAY,OAAZ,C;UOllVP,U;UADP,YPolVe,WOplVH,WPolVwB,GOplVxB,C;UACL,IAAI,aAAJ,C;YACH,aPklV
uC,gB;YAA5B,WOjlVX,aPilVgC,GOjlVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP8kVA,iB;UACA,IAAK,WAA
I,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;2FAkBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wB
AAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOpmVP,U;UADP,YPsmVe,WOtm
VH,WPsmVwB,GOtmVxB,C;UACL,IAAI,aAAJ,C;YACH,aPomVuC,gB;YAA5B,WOnmVX,aPmmVgC,GOnmV
hC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPgmVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,
W;O;KAfX,C;2FAkBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAA
hB,M;UACI,UAAU,YAAY,OAAZ,C;UOtnVP,U;UADP,YPwnVe,WOxnVH,WPwnVwB,GOxnVxB,C;UACL,IA
AI,aAAJ,C;YACH,aPsnVuC,gB;YAA5B,WOrnVX,aPqnVgC,GOrnVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPk
nVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;2FAkBA,yB;MAAA,+D;MAAA
,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UOxoVP,
U;UADP,YP0oVe,WO1oVH,WP0oVwB,GO1oVxB,C;UACL,IAAI,aAAJ,C;YACH,aPwoVuC,gB;YAA5B,WOvo
VX,aPuoVgC,GOvoVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPooVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CA
AJ,C;;QAET,OAAO,W;O;KAfX,C;2FAkBA,yB;MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;
UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,OAAZ,C;UO1pVP,U;UADP,YP4pVe,WO5pVH,WP4pVwB,GO5
pVxB,C;UACL,IAAI,aAAJ,C;YACH,aP0pVuC,gB;YAA5B,WOzpVX,aPypVgC,GOzpVhC,EAAS,MAAT,C;YAC
A,e;;YAEA,c;;UPspVA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;2FAkBA,yB;
MAAA,+D;MAAA,sE;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,UAAU,YAAY,
OAAZ,C;UO5qVP,U;UADP,YP8qVe,WO9qVH,WP8qVwB,GO9qVxB,C;UACL,IAAI,aAAJ,C;YACH,aP4qVuC,
gB;YAA5B,WO3qVX,aP2qVgC,GO3qVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UPwqVA,iB;UACA,IAAK,WA
AI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;2FAkBA,yB;MAAA,oC;MAAA,+D;MAAA,gC;MAAA,sE
;QAUoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,UAAU,YAAY,oBAAZ,C;U
O9rVP,U;UADP,YPgsVe,WOhsVH,WPgsVwB,GOhsVxB,C;UACL,IAAI,aAAJ,C;YACH,aP8rVuC,gB;YAA5B,
WO7rVX,aP6rVgC,GO7rVhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UP0rVA,iB;UACA,IAAK,WAAI,eAAe,oBAA
f,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;0FAkBA,yB;MAAA,kC;MAAA,4C;MAAA,wE;QAQW,sC;QAAA,8C;O;
MARX,oDASQ,Y;QAA6C,OAAgB,qBAAhB,oBAAgB,C;O;MATrE,iDAUQ,mB;QAAoC,gCAAY,OAAZ,C;O;M
AV5C,gF;MAAA,yC;QAQI,2D;O;KARJ,C;4EAcA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;Q
A+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,IAAV,CAAhB,C;;QAhVhB,OAAiVO,W

;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,
WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAUA,yB;
MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WA
hViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAO
W,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,IAAV,
CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;
QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OAiVO,
W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa
,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAUA,yB;
MAAA,gE;MAAA,uC;QAOW,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WA
hViB,SAgVb,CAAU,IAAV,CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAAA,uC;QAO
W,kBAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,e;UACI,WAAY,WAhViB,SAgVb,CAAU,IAAV,
CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;8EAUA,yB;MAAA,gE;MAiVA,oC;MAAA,gC;MAjVA,uC;QAOW,k
BAAM,eAAa,gBAAb,C;QA+UA,Q;QAAb,iD;UAAa,WAAb,0B;UACI,WAAY,WAhViB,SAgVb,CAAU,iBAAV,
CAAJ,C;;QAhVhB,OAiVO,W;O;KAxVX,C;0FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;
QAgHP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAjHwB,SAiHpB,EAAU,cAAV,EAAU,s
BAAV,WAAmB,IAAnB,CAAJ,C;;QAjHhB,OAkHO,W;O;KAzHX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,
kBAAa,eAAa,gBAAb,C;QAmHP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WApHwB,SAoH
pB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QApHhB,OAqHO,W;O;KA5HX,C;4FAUA,yB;MA
AA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAsHP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI
,WAAY,WAvHwB,SAuHpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAvHhB,OAwHO,W;O;K
A/HX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAyHP,gB;QADb,YAAY,C;QACZ,i
D;UAAa,WAAb,e;UACI,WAAY,WA1HwB,SA0HpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;Q
A1HhB,OA2HO,W;O;KAlIX,C;4FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QA4HP,gB;Q
ADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WA7HwB,SA6HpB,EAAU,cAAV,EAAU,sBAAV,WAA
mB,IAAnB,CAAJ,C;;QA7HhB,OA8HO,W;O;KArIX,C;2FAUA,yB;MAAA,gE;MAAA,uC;QAOW,kBAAa,eAAa,
gBAAb,C;QA+HP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAhIwB,SAgIpB,EAAU,cAAV
,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAhIhB,OAiIO,W;O;KAxIX,C;4FAUA,yB;MAAA,gE;MAAA,uC;Q
AOW,kBAAa,eAAa,gBAAb,C;QAkIP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,WAAY,WAnIwB,SA
mIpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAnIhB,OAoIO,W;O;KA3IX,C;4FAUA,yB;MAA
A,gE;MAAA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAqIP,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UACI,W
AAY,WAtIwB,SAsIpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAtIhB,OAuIO,W;O;KA9IX,C;
4FAUA,yB;MAAA,gE;MAuIA,oC;MAAA,gC;MAvIA,uC;QAOW,kBAAa,eAAa,gBAAb,C;QAwIP,gB;QADb,YA
AY,C;QACZ,iD;UAAa,WAAb,0B;UACI,WAAY,WAzIwB,SAyIpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,iBA
AnB,CAAJ,C;;QAzIhB,OA0IO,W;O;KAjJX,C;wGAUA,yB;MAAA,+D;MAAA,uC;QAOW,kBAAoB,gB;QA8iEd,
gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,e;UApiEmC,U;UAAA,cAVQ,SAUR,EAoiEET,cApiES,EAoiEET,sBAp
iES,WAoiEA,IApiEA,W;YAA6C,6B;;;QAVhF,OAWO,W;O;KAlBX,C;4FAUA,yB;MAAA,oD;QA2iEiB,gB;QAD
b,YAAY,C;QACZ,iD;UAAa,WAAb,e;UApiEmC,U;UAAA,yBAoiEET,cApiES,EAoiEET,sBApiES,WAoiEA,IApiE
A,W;YAA6C,6B;;;QApiEhF,OAqiEO,W;O;KA6CX,C;8FARX,C;8FAWA,6C;MAQiB,UACiB,M;MAF9B,YAAY,C;
MACZ,wBAAa,SAAb,M;QACI,WAAY,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MACh
B,OAAO,W;K;gGAGX,6C;MAQiB,UACiB,M;MAF9B,YAAY,C;MACZ,wBAAa,SAAb,M;QACI,WAAY,WAAI,W
AAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MAChB,OAAO,W;K;gGAGX,6C;MAQiB,UACiB,M;MAF
9B,YAAY,C;MACZ,wBAAa,SAAb,M;QACI,WAAY,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CA
AJ,C;;MAChB,OAAO,W;K;gGAGX,6C;MAQiB,UACiB,M;MAF9B,YAAY,C;MACZ,wBAAa,SAAb,M;QACI,WA
AY,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MAChB,OAAO,W;K;gGAGX,6C;MAQiB,U
ACiB,M;MAF9B,YAAY,C;MACZ,wBAAa,SAAb,M;QACI,WAAY,WAAI,WAAU,cAAV,EAAU,sBA
AV,WAAmB,IAAnB,CAAJ,C;;MAChB,OAAO,W;K;gGAGX,6C;MAQiB,UACiB,M;MAF9B,YAAY,C;MACZ,w

BAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,
CAAJ,C;;MAChB,OAAO,W;K;gGAGX,6C;MAQiB,UACiB,M;MAF9B,YAAY,C;MACZ,wBAAa,SAAb,gB;QA
Aa,WAAA,SAAb,M;QACI,WAAY,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MAChB,O
AAO,W;K;+FAGX,6C;MAQiB,UACiB,M;MAF9B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;
QACI,WAAY,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MAChB,OAAO,W;K;gGAGX,y
B;MAAA,oC;MAAA,gC;MAAA,oD;QAQiB,UACiB,M;QAF9B,YAAY,C;QACZ,wBAAa,SAAb,gB;UAAa,WAA
b,UAAa,SAAb,O;UACI,WAAY,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,iBAAnB,CAAJ,C;;QAChB,OAA
O,W;O;KAVX,C;0FAaA,yB;MAAA,+D;MAAA,uC;QAOW,kBAAa,gB;QAk2DJ,Q;QAAhB,iD;UAAgb,cAAhB,e
;UA11DqB,U;UAAA,cARe,SAQf,CA01DQ,OA11DR,W;YAAsC,6B;;;QAR3D,OASO,W;O;KAhBX,C;8FAUA,y
B;MAAA,oD;QA+1DoB,Q;QAAhB,iD;UAAgb,cAAhB,e;UA11DqB,U;UAAA,wBA01DQ,OA11DR,W;YAAsC,6
B;;;QAC3D,OAAO,W;O;KANX,C;gFASA,6C;MAKiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QA
CI,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAAO,W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAAa,SAAb,gB;
QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAAO,W;K;kFAGX,6C;MAKiB,
Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAA
O,W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,UAAU,IA
AV,CAAJ,C;;MAChB,OAAO,W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QA
CI,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAAO,W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAAa,SAAb,gB;
QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAAO,W;K;kFAGX,6C;MAKiB,
Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAA
O,W;K;kFAGX,6C;MAKiB,Q;MAAb,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QACI,WAAY,WAAI,UAAU,IA
AV,CAAJ,C;;MAChB,OAAO,W;K;kFAGX,yB;MAAA,oC;MAAA,gC;MAAA,oD;QAKiB,Q;QAAb,wBAAa,SAA
b,gB;UAAa,WAAb,UAAa,SAAb,O;UACI,WAAY,WAAI,UAAU,iBAAV,CAAJ,C;;QAChB,OAAO,W;O;KAPX,
C;IAe4B,0C;MAAA,mB;QAAE,2C;O;K;IAL9B,8B;MAKI,OAAO,qBAAiB,2BAAjB,C;K;IAQiB,4C;MAAA,mB;
QAAE,+C;O;K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAQiB,4C;MAAA,mB;QAAE,gD;O;K;IAL9B,g
C;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAQiB,4C;MAAA,mB;QAAE,8C;O;K;IAL9B,gC;MAKI,OAAO,qBAAiB
,6BAAjB,C;K;IAQiB,4C;MAAA,mB;QAAE,+C;O;K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAQiB,4C;
MAAA,mB;QAAE,gD;O;K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAQiB,4C;MAAA,iD;O;
K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAQiB,4C;MAAA,kD;O;K;IAL9B,gC;MAKI,OAA
O,qBAAiB,6BAAjB,C;K;IAQiB,4C;MAAA,+C;O;K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;
IAGX,6B;MASI,OAA2B,SAAf,aAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;
K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAA
e,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,C
AAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAA
K,CAAe,C;K;IAG/B,+B;MAQI,OAA2B,SAAf,eAAL,SAAK,CAAe,C;K;0FAG/B,yB;MAAA,2D;MAAA,+D;MA
AA,sC;QAYc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UUACI,
UAAU,SAAAS,CAAT,C;UUACV,IAAAI,GAAAI,WAAAI,GAAAJ,GAAAJ,CAAAR,C;YAACI,IAAAK,IAAAA,WAAAI,CAAAJ,C;;QAEb,OAAAO,I;O;KAjBX,C;4FAoBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAYc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UUACI,UAAU,SAAS,CAAT,C;UUACV,IAAAI,GAAAI,WAAAI,GAAAJ,GAAAJ,CAAAR,C;YAACI,IAAAK,IAAAA,WAAAI,CAAAJ,C;;QAEb,OAAAO,I;O;KAjBX,C;4FAoBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAYc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UUACI,UAAU,SAAS,CAAT,C;UUACV,IAAAI,GAAAI,WAAAI,GAAAJ,GAAAJ,CAAAR,C;YAACI,IAAAK,IAAAA,WAAAI,CAAAJ,C;;QAEb,OAAAO,I;O;KAjBX,C;4FAoBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAYc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UUACI,UAAU,SAAS,CAAT,C;UUACV,IAAAI,GAAAI,WAAAI,GAAAJ,GAAAJ,CAAAR,C;YAACI,IAAAK,IAAAA,WAAAI,CAAAJ,C;;QAEb,OAAAO,I;O;KAjBX,C;4FAoBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAYc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UUACI,UAAU,SAAS,CAAT,C;UUACV,IAAAI,GAAAI,WAAAI,GAAAJ,GAAAJ,CAAAR,C

;YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;4FAmBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QA
Wc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SA
AS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C;YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAhBX
,C;4FAmBA,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAA
U,SAAV,gB;UAAU,QAAA,SAAV,M;UACI,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C;
YACI,IAAK,WAAI,CAAJ,C;;QAEb,OAAO,I;O;KAhBX,C;4FAmBA,yB;MAAA,2D;MAAA,+D;MAAA,oC;MA
AA,gC;MAAA,sC;QAWc,Q;QAFV,UAAU,c;QACV,WAAW,gB;QACX,wBAAU,SAAV,gB;UAAU,QAAV,UAA
U,SAAV,O;UACI,UAAU,SAAS,cAAT,C;UACV,IAAI,GAAI,WAAI,GAAJ,CAAR,C;YACI,IAAK,WAAI,cAAJ,
C;;QAEb,OAAO,I;O;KAhBX,C;IAmBA,qC;MAQI,UAAe,aAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;
MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,
G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;
MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,
eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,
C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YA
AJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAA
U,KAAV,C;MACJ,OAAO,G;K;IAGX,uC;MAQI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;M
ACJ,OAAO,G;K;IAGX,oC;MAMI,UAAe,aAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G
;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;
MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,
eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,
C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YA
AJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EA
AU,KAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;
MACJ,OAAO,G;K;IAGX,sC;MAMI,UAAe,eAAL,SAAK,C;MACX,YAAJ,GAAI,EAAU,KAAV,C;MACJ,OAAO,
G;K;IAGX,iC;MAMI,OAAO,wBAAa,qBAAiB,YAAY,gBAAZ,CAAjB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0B
AAa,qBAAoB,YAAY,gBAAZ,CAApB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAqB,YAAY,gBAAZ,C
AArB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAmB,YAAY,gBAAZ,CAAnB,CAAb,C;K;IAGX,mC;M
AMI,OAAO,0BAAa,qBAAoB,YAAY,gBAAZ,CAApB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAqB,Y
AAY,gBAAZ,CAArB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa,qBAAsB,YAAY,gBAAZ,CAAtB,CAAb,C;K;
IAGX,mC;MAMI,OAAO,0BAAa,qBAAuB,YAAY,gBAAZ,CAAvB,CAAb,C;K;IAGX,mC;MAMI,OAAO,0BAAa
,qBAAoB,YAAiB,eAAL,gBAAK,EAAa,GAAb,CAAjB,CAApB,CAAb,C;K;IAGX,iC;MAUI,UAAe,aAAL,SAAK,
C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OA
AJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EA
AO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;
MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,
G;K;IAGX,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,m
C;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAA
e,eAAL,SAAK,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;IAGX,mC;MAUI,UAAe,eAAL,SAA
K,C;MACX,OAAJ,GAAI,EAAO,KAAP,C;MACJ,OAAO,G;K;4EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB
,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I
;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAA
U,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB
;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;
8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,O
AAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;Q
AAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8E
AGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OA
AV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QA

AgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8EA
GX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,CAAC,UAAU,OAA
V,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;8EAGX,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QA
AhB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,IAAI,CAAC,UAAU,oBAAV,CAAL,C;Y
AAyB,OAAO,K;;QACtD,OAAO,I;O;KAPX,C;IAUA,wB;MAMI,OAAO,EA5mJA,qBAAQ,CA4mJR,C;K;IAGX,0
B;MAMI,OAAO,EA7mJA,qBAAQ,CA6mJR,C;K;IAGX,0B;MAMI,OAAO,EA9mJA,qBAAQ,CA8mJR,C;K;IAG
X,0B;MAMI,OAAO,EA/mJA,qBAAQ,CA+mJR,C;K;IAGX,0B;MAMI,OAAO,EAhnJA,qBAAQ,CAgnJR,C;K;IA
GX,0B;MAMI,OAAO,EAjnJA,qBAAQ,CAinJR,C;K;IAGX,0B;MAMI,OAAO,EAlnJA,qBAAQ,CAknJR,C;K;IAG
X,0B;MAMI,OAAO,EAnnJA,qBAAQ,CAmnJR,C;K;IAGX,0B;MAMI,OAAO,EApnJA,qBAAQ,CAonJR,C;K;8E
AGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CA
AJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;8EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cA
AA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+EAGX,gC;MAMo
B,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,O
AAO,I;;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q
AAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wB
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,O
AAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAA
U,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+EAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,g
B;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+EA
GX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ
,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+EAGX,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAAhB,wB
AAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,I;;
QACrD,OAAO,K;O;KAPX,C;gFAUA,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAK
I,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;
kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,qB;MAKI,OAAO,gB;K;kFAGX,gC;MA
KoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,
CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;kFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,
gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,
gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,
OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,
SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;
mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI
,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,w
BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAA
O,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAs
B,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAKoB,Q;MADhB,YAAY,C;M
ACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9
C,OAAO,K;K;mFAGX,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAKoB,Q;QADhB,YAAY,C;QACZ,wBAAgB,SA
AhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,qB;;QAC9C,OAA
O,K;O;KANX,C;8EASA,yC;MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAA
hB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yC;MAUoB,Q;MADhB,
kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAv
B,C;;MACpC,OAAO,W;K;gFAGX,yC;MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,c
AAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yC;MAUoB,Q;
MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EA
AuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yC;MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB
;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yC;
MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,

WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yC;MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB
,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;g
FAGX,yC;MAUoB,Q;MADhB,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cA
Ac,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;gFAGX,yB;MAAA,oC;MAAA,gC;MAAA,gD;QAU
oB,Q;QADhB,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,cAAc,UAA
U,WAAV,EAAuB,oBAAvB,C;;QACpC,OAAO,W;O;KAXX,C;4FAcA,yC;MAYoB,UAA8B,M;MAF9C,YAAY,C
;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cAAV,EAA
U,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAGX,yC;MAYoB,UAA8B,M;MAF9C,
YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cA
AV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAGX,yC;MAYoB,UAA8B,M
;MAF9C,YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,W
AAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAGX,yC;MAYoB,U
AA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB
,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAGX,yC;M
AYoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M
;QAAsB,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W;K;8FAG
X,yC;MAYoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,S
AAhB,M;QAAsB,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,OAAO,W
;K;8FAGX,yC;MAYoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,gB;QAAgB,
cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;;MACpC,
OAAO,W;K;8FAGX,yC;MAYoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MAClB,wBAAgB,SAAhB,g
B;QAAgB,cAAA,SAAhB,M;QAAsB,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;
;MACpC,OAAO,W;K;8FAGX,yB;MAAA,oC;MAAA,gC;MAAA,gD;QAYoB,UAA8B,M;QAF9C,YAAY,C;QAC
Z,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,cAAc,WAAU,cAAV,E
AAU,sBAAV,WAAmB,WAAnB,EAAgC,oBAAhC,C;;QACpC,OAAO,W;O;KAbX,C;wFAgBA,yB;MAAA,8D;M
AAA,gD;QAYoB,Q;QAHhB,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,
UAAI,YAAJ,EAAI,oBAAJ,OAAV,EAAwB,WAAxB,WAAxB,C;;QACpC,OAAElB,OAAO,W;O;O;KAdX,C;0FAi
BA,yB;MAAA,8D;MAAA,gD;QAYoB,Q;QAHhB,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C
;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EAAwB,WAAxB,WAAxB,C;;QACpC,OAAElB,OAAO,W
;O;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoB,Q;QAHhB,YAAY,wB;QACZ,kBAAkB,O;QAClB,OA
AO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EAAwB,WAAxB,WAAxB,C;;QACp
C,OAAElB,OAAO,W;O;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoB,Q;QAHhB,YAAY,wB;QACZ,kB
AAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EAAwB,WAAx
B,WAAxB,C;;QACpC,OAAElB,OAAO,W;O;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoB,Q;QAHhB,Y
AAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OA
AV,EAAwB,WAAxB,WAAxB,C;;QACpC,OAAElB,OAAO,W;O;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QA
Yoob,Q;QAHhB,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,YAA
J,EAAI,oBAAJ,OAAV,EAAwB,WAAxB,WAAxB,C;;QACpC,OAAElB,OAAO,W;O;O;KAdX,C;0FAiBA,yB;MA
AA,8D;MAAA,gD;QAYoob,Q;QAHhB,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cA
Ac,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EAAwB,WAAxB,WAAxB,C;;QACpC,OAAElB,OAAO,W;O;O;KAd
X,C;0FAiBA,yB;MAAA,8D;MAAA,gD;QAYoob,Q;QAHhB,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,
CAAhB,C;UACI,cAAc,UAAU,UAAI,YAAJ,EAAI,oBAAJ,OAAV,EAAwB,WAAxB,WAAxB,C;;QACpC,OAAElB,
OAAO,W;O;O;KAdX,C;0FAiBA,yB;MAAA,8D;MAAA,oC;MAAA,gD;QAYoob,Q;QAHhB,YAAY,wB;QACZ,kB
AAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,sBAAI,YAAJ,EAAI,oBAAJ,QAAV,EAAwB,WAA
xB,WAAxB,C;;QACpC,OAAElB,OAAO,W;O;O;KAdX,C;sGAiBA,yB;MAAA,8D;MAAA,gD;QAUI,YAAY,wB;
QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,oBAAJ,OAAV,EAAwB,WAAxB,
C;;QACpC,OAAElB,OAAO,W;O;O;KAZX,C;sGAeA,yB;MAAA,8D;MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAk
B,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,oBAAJ,OAAV,EAAwB,WAAxB,C;;QACpC,OA
AElB,OAAO,W;O;O;KAZX,C;sGAeA,yB;MAAA,8D;MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OA
AO,SAAS,CAAhB,C

;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAh
BX,C;wGAmBA,yB;MAAA,8D;MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,
C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;K
AhBX,C;wGAmBA,yB;MAAA,8D;MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CAA
hB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O
;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,CA
AhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;
O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAAS,C
AAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,
W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB,OAAO,SAA
S,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAA
O,W;O;KAhBX,C;wGAmBA,yB;MAAA,8D;MAAA,oC;MAAA,gD;QAUI,YAAY,wB;QACZ,kBAAkB,O;QAClB
,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,EAAjB,EAA6B,WAA7B,C;UACd,q
B;;QAEJ,OAAO,W;O;KAhBX,C;oFAmBA,6B;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,
M;QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;
QAAsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QA
AsB,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAs
B,OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,
OAAO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,OA
AO,OAAP,C;;K;sFAG1B,6B;MAIoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,OAAO
,OAAP,C;;K;sFAG1B,yB;MAAA,oC;MAAA,gC;MAAA,oC;QAIoB,Q;QAAhB,wBAAgB,SAAhB,gB;UAAgB,cAA
hB,UAAgB,SAAhB,O;UAAsB,OAAO,oBAAP,C;;O;KAJ1B,C;kGAOA,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;
MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;o
GAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,QA
AO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBA
Aa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;
MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,QAAO,cAAP,E
AAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;
QAAa,WAAA,SAAb,M;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAA
a,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAAA,SAAb,M;QAAmB,QAAO,cAAP,EAAO,sBAAP,
WAAgB,IAAhB,C;;K;oGAGvB,6B;MAOiB,UAAa,M;MAD1B,YAAY,C;MACZ,wBAAa,SAAb,gB;QAAa,WAA
A,SAAb,M;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;oGAGvB,yB;MAAA,oC;MAAA,gC;MAA
A,oC;QAOiB,UAAa,M;QAD1B,YAAY,C;QACZ,wBAAa,SAAb,gB;UAAa,WAAb,UAAa,SAAb,O;UAAmB,QAAO,
cAAP,EAAO,sBAAP,WAAgB,iBAAhB,C;;O;KAPvB,C;
IAUA,wB;MAII,OAAO,oB;K;IAGX,0B;MAII,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAA
O,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;gFAGX,yB;MAsDA,8D;MAtDA,s
C;QAGW,sB;;UA0DP,IAhxLO,qBAAQ,CAgxLf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAAL,C;UA
Cd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eA9DmB,QA8DJ,CAAS,
OAAT,C;UACf,aAAAU,CAAAV,OAAa,SAAb,M;YACI,QAAAQ,UAAAK,CAAAL,C;YACR,QAAjEe,QAAiEP,CAAS,CAA
T,C;YACR,IAAAI,2BAAAW,CAAAX,KAAAJ,C;cACI,UAAAU,C;cACV,WAAAW,C;;;;UAGnB,qBAAO,O;;;QAvEP,yB;O;
KAHJ,C;kFAMA,yB;MAuEA,8D;MAvEA,sC;QAGW,sB;;UA2EP,IA/xLO,qBAAQ,CA+xLf,C;YAAe,qBAAO,I;Y;Y
AAP,uB;;UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAAjB,C;YAAoB,qBAAO,O;Y
AAP,uB;;UACpB,eA/EmB,eA/EmB,QA+EJ,CAAS,OAAT,C;UACf,aAAAU,CAAAV,OAAa,SAAb,M;YACI,QAAAQ,
UAAAK,CAAAL,C;YACR,QAAlEfE,QAAkEP,CAAS,CAAT,C;YACR,IAAAI,IAAAW,CAAAX,KAAAJ,C;cACI,UAAAU,
C;cACV,WAAAW,C;;;;UAGnB,qBAAO,O;;;QAxFP,yB;O;KAHJ,C;kFAMA,yB;MA4FA,8D;MA5FA,sC;QAGW,sB;;UA4FP,IA

9yLO,qBAAQ,CA8yLf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eAhGmB,QAgGJ,CAAS,OAAT,C;UACf,aAAU,C
AAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAnGe,QAmGP,CAAS,CAAT,C;YACR,IAAI,2BA
AW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QAzGP,yB;O;KAHJ,C;kFAMA,yB;
MAyGA,8D;MAzGA,sC;QAGW,sB;;UA6GP,IA7zLO,qBAAQ,CA6zLf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cA
Ac,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,e
AjHmB,QAiHJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAp
He,QAoHP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,q
BAAO,O;;;QA1HP,yB;O;KAHJ,C;kFAMA,yB;MA0HA,8D;MA1HA,sC;QAGW,sB;;UA8HP,IA50LO,qBAAQ,C
A40Lf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CA
AjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eAlImB,QAkIJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,
M;YACI,QAAQ,UAAK,CAAL,C;YACR,QArIe,QAqIP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;c
ACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QA3IP,yB;O;KAHJ,C;kFAMA,yB;MA2IA,8D;MA3IA,sC;
QAGW,sB;;UA+IP,IA+IP,IA31LO,qBAAQ,CA21Lf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAAL,C;UACd
,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eAnJmB,QAmJJ,CAAS,OA
AT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAtJe,QAsJP,CAAS,CAAT,C;
YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QA5JP,yB;O;KA
HJ,C;kFAMA,yB;MA4JA,8D;MA5JA,sC;QAGW,sB;;UAgKP,IA12LO,qBAAQ,CA02Lf,C;YAAe,qBAAO,I;YAA
P,uB;;UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAA
P,uB;;UACpB,eApKmB,QAoKJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CA
AL,C;YACR,QAvKe,QAuKP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WA
AW,C;;;UAGnB,qBAAO,O;;;QA7KP,yB;O;KAHJ,C;kFAMA,yB;MA6KA,8D;MA7KA,sC;QAGW,sB;;UAiLP,IA
z3LO,qBAAQ,CAy3Lf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,
IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eArLmB,QAqLJ,CAAS,OAAT,C;UACf,aAAU,CA
AV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAxLe,QAwLP,CAAS,CAAT,C;YACR,IAAI,2BAA
W,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QA9LP,yB;O;KAHJ,C;kFAMA,yB;M
A8LA,8D;MAAA,oC;MA9LA,sC;QAGW,sB;;UAkMP,IAx4LO,qBAAQ,CAw4Lf,C;YAAe,qBAAO,I;YAAP,uB;;
UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;
UACpB,eAtMmB,QAsMJ,CAAS,oBAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;
YACR,QAzMe,QAyMP,CAAS,cAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;
;;UAGnB,qBAAO,O;;;QA/MP,yB;O;KAHJ,C;4FAMA,yB;MAAA,8D;MAAA,sC;QAOI,IAhxLO,qBAAQ,CAgxLf
,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C
;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CA
AL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;
QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA/xLO,qBAAQ,CA+xLf,C;UAAe,OA
AO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OA
AO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR
,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OA
AO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA9yLO,qBAAQ,CA8yLf,C;UAAe,OAAO,I;QACt
B,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC
3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SA
AS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;O;KApBX,C;8F
AuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA50LO,qBAAQ,CA40Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C
,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT

,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IA
AI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;M
AAA,8D;MAAA,sC;QAOI,IA31LO,qBAAQ,CA21Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gB
AAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aA
AU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,
CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;M
AAA,sC;QAOI,IA12LO,qBAAQ,CA02Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAA
L,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,
OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KA
AJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QA
OI,IAz3LO,qBAAQ,CAy3Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;
QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAA
b,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,
UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,oC;MAAA,sC;QA
OI,IAx4LO,qBAAQ,CAw4Lf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;
QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,oBAAT,C;QACf,aAAU,CAAV,OAAa,SA
Ab,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,cAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI
,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;gFAuBA,yB;MAAA,sE;MAAA,8D;MkBhnbA,iB;
MlBgnbA,sC;QAeiB,Q;QAFb,IAr+LO,qBAAQ,CAq+Lf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL
,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBznbG,MA
AO,KlBynbO,QkBznbP,ElBynbiB,CkBznbjB,C;;QlB2nbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,
8D;MkBtobA,iB;MlBsobA,sC;QAeiB,Q;QAFb,IAn/LO,qBAAQ,CAm/Lf,C;UAAe,MAAM,6B;QACrB,eAAe,SAA
S,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR
,WkBB/obG,MAAO,KlBB+obO,QkBB/obP,ElBB+obiB,CkBB/objB,C;;QlBipbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MA
AA,sE;MAAA,8D;MkB5pbA,iB;MlB4pbA,sC;QAeiB,Q;QAFb,IAjgMO,qBAAQ,CAigMf,C;UAAe,MAAM,6B;Q
ACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAA
L,CAAT,C;UACR,WkBrqbG,MAAO,KlBqqbO,QkBrqbP,ElBqqbiB,CkBrqbjB,C;;QlBuqbd,OAAO,Q;O;KAnBX,
C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB3rbA,iB;MlB3rbA,sC;QAeiB,Q;QAFb,IA/gMO,qBAAQ,CA+gMf,C;U
AAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;UACR,WkB3rbG,MAAO,KlB2rbO,QkB3rbP,ElB2rbiB,CkB3rbjB,C;;QlB6rbd,OAA
O,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB7hMO,qBAAQ,CA6hMf,C;UAAe,MAAM,6B;QACrB,
eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAA
T,C;UACR,WkBjtbG,MAAO,KlBitbO,QkBjtbP,ElBitbiB,CkBjtbjB,C;;
QlBmtbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB9tbA,iB;MlB8tbA,sC;QAeiB,Q;QAFb,I
A3iMO,qBAAQ,CA2iMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aA
AU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBvubG,MAAO,KlBuubO,QkBvubP,ElBuu
biB,CkBvubjB,C;;QlByubd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBpvbA,iB;MlBovbA,sC
;QAeiB,Q;QAFb,IAzjMO,qBAAQ,CAyjMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;Q
ACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7vbG,MAAO,KlB6vb
O,QkB7vbP,ElB6vbiB,CkB7vbjB,C;;QlB+vbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB1w
bA,iB;MlB0wbA,sC;QAeiB,Q;QAFb,IAvkMO,qBAAQ,CAukMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAA
K,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBn
xbG,MAAO,KlBmxbO,QkBnxbP,ElBmxbiB,CkBnxbjB,C;;QlBqxbd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,s
E;MAAA,oC;MAAA,8D;MkBhybA,iB;MlBgybA,sC;QAeiB,Q;QAFb,IArlMO,qBAAQ,CAqlMf,C;UAAe,MAAM,
6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAA
K,CAAL,EAAT,C;UACR,WkBzybG,MAAO,KlByybO,QkBzybP,ElByybiB,CkBzybjB,C;;QlB2ybd,OAAO,Q;O;K
AnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBj0bA,iB;MlBi0bA,sC;QAeiB,Q;QAFb,IA3qMO,qBAAQ,CA2q
Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,

QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB10bG,MAAO,KlB00bO,QkB10bP,ElB00biB,CkB10bjB,C;;Ql
B40bd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBv1bA,iB;MlBu1bA,sC;QAeiB,Q;QAFb,IA
zrMO,qBAAQ,CAyrMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAA
U,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh2bG,MAAO,KlBg2bO,QkBh2bP,ElBg2bi
B,CkBh2bjB,C;;QlBk2bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB72bA,iB;MlB62bA,sC;
QAeiB,Q;QAFb,IAvsMO,qBAAQ,CAusMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;Q
ACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBt3bG,MAAO,KlBs3b
O,QkBt3bP,ElBs3biB,CkBt3bjB,C;;QlBw3bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBn4
bA,iB;MlBm4bA,sC;QAeiB,Q;QAFb,IArtMO,qBAAQ,CAqtMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK
,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB54
bG,MAAO,KlB44bO,QkB54bP,ElB44biB,CkB54bjB,C;;QlB84bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE
;MAAA,8D;MkBz5bA,iB;MlBy5bA,sC;QAeiB,Q;QAFb,IAnuMO,qBAAQ,CAmuMf,C;UAAe,MAAM,6B;QACrB
,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CA
AT,C;UACR,WkBl6bG,MAAO,KlBk6bO,QkBl6bP,ElBk6biB,CkBl6bjB,C;;QlBo6bd,OAAO,Q;O;KAnBX,C;mFA
sBA,yB;MAAA,sE;MAAA,8D;MkB/6bA,iB;MlB+6bA,sC;QAeiB,Q;QAFb,IAjvMO,qBAAQ,CAivMf,C;UAAe,M
AAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,U
AAK,CAAL,CAAT,C;UACR,WkBx7bG,MAAO,KlBw7bO,QkBx7bP,ElBw7biB,CkBx7bjB,C;;QlB07bd,OAAO,Q
;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBr8bA,iB;MlBq8bA,sC;QAeiB,Q;QAFb,IA/vMO,qBAAQ,C
A+vMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UA
CI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB98bG,MAAO,KlB88bO,QkB98bP,ElB88biB,CkB98bjB,C;;
QlBg9bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB39bA,iB;MlB29bA,sC;QAeiB,Q;QAFb,
IA7wMO,qBAAQ,CA6wMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,
aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp+bG,MAAO,KlBo+bO,QkBp+bP,El
Bo+biB,CkBp+bjB,C;;QlBs+bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MkBj/bA,
iB;MlBi/bA,sC;QAeiB,Q;QAFb,IA3xMO,qBAAQ,CA2xMf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,C
AAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkB1/bG
,MAAO,KlB0/bO,QkB1/bP,ElB0/biB,CkB1/bjB,C;;QlB4/bd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MA
AA,8D;MAAA,sC;QAaiB,Q;QAFb,IA/2MO,qBAAQ,CA+2Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,
CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2B
AAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;M
AAA,sC;QAaiB,Q;QAFb,IA73MO,qBAAQ,CA63Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,C
AAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,C
AAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;
QAaiB,Q;QAFb,IA34MO,qBAAQ,CA24Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;Q
ACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KA
AJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q
;QAFb,IAz5MO,qBAAQ,CAy5Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;
QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YA
CI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,I
Av6MO,qBAAQ,CAu6Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,a
AAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAA
W,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAr7MO,q
BAAQ,CAq7Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAA
V,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QA
GnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAn8MO,qBAAQ,C
Am8Mf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;U
ACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;;;QAGnB,OA
AO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAj9MO,qBAAQ,CAi9Mf,C;

UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ
,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;K
AnBX,C;mFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA/9MO,qBAAQ,CA+9Mf,
C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QA
AQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;
O;KAnBX,C;4FAsBA,yB;MAAA,8D;MkBlscA,iB;MlBkscA,sC;QAaiB,Q;QAFb,IArjNO,qBAAQ,CAqjNf,C;UAA
e,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,
UAAK,CAAL,CAAT,C;UACR,WkBzscG,MAAO,KlBysciO,QkBzscP,ElByscieB,CkBzscjB,C;;QlB2scd,OAAO,Q;
O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBttcA,iB;MlBstcA,sC;QAaiB,Q;QAFb,IAjkNO,qBAAQ,CAikNf,C;UAA
e,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,
UAAK,CAAL,CAAT,C;UACR,WkB7tcG,MAAO,KlB6tciO,QkB7tcP,ElB6tcieB,CkB7tcjB,C;;QlB+tcd,OAAO,Q;O;
KAjBX,C;8FAoBA,yB;MAAA,8D;MkB1ucA,iB;MlB0ucA,sC;QAaiB,Q;QAFb,IA7kNO,qBAAQ,CA6kNf,C;UAA
e,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,
UAAK,CAAL,CAAT,C;UACR,WkBjvcG,MAAO,KlBivciO,QkBjvcP,ElBivcieB,CkBjvcjB,C;;QlBmvcd,OAAO,Q;
O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB9vcA,iB;MlB8vcA,sC;QAaiB,Q;QAFb,IAzlNO,qBAAQ,CAylNf,C;UA
Ae,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS
,UAAK,CAAL,CAAT,C;UACR,WkBrwcG,MAAO,KlBqwciO,QkBrwcP,ElBqwcieB,CkBrwcjB,C;;QlBuwcd,OAA
O,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBlxcA,iB;MlBkxcA,sC;QAaiB,Q;QAFb,IArmNO,qBAAQ,CAqmNf,
C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,
SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzxcG,MAAO,KlByxciO,QkBzxcP,ElByxcieB,CkBzxcjB,C;;QlB2xcd,O
AAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBtycA,iB;MlBsycA,sC;QAaiB,Q;QAFb,IAjnNO,qBAAQ,CAinN
f,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAA
Q,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB7ycG,MAAO,KlB6yciO,QkB7ycP,ElB6ycieB,CkB7ycjB,C;;QlB+ycd,
OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB1zcA,iB;MlB0zcA,sC;QAaiB,Q;QAFb,IA7nNO,qBAAQ,CA
6nNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,Q
AAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBj0cG,MAAO,KlBi0ciO,QkBj0cP,ElBi0cieB,CkBj0cjB,C;;QlBm0c
d,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB90cA,iB;MlB80cA,sC;QAaiB,Q;QAFb,IAzoNO,qBAAQ,C
AyoNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,
QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBr1cG,MAAO,KlBq1cO,QkBr1cP,ElBq1ciB,CkBr1cjB,C;;QlBu1c
1cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,oC;MAAA,8D;MkBl2cA,iB;MlBk2cA,sC;QAaiB,Q;QAFb,IArpN
O,qBAAQ,CAqpNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CA
AV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBz2cG,MAAO,KlBy2cO,QkBz2cP,ElBy2ciB,Ck
Bz2cjB,C;;QlB22cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBj4cA,iB;MlBi4cA,sC;QAaiB,Q;QAFb,IA
zuNO,qBAAQ,CAyuNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,
CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBx4cG,MAAO,KlBw4cO,QkBx4cP,ElBw4ciB,
CkBx4cjB,C;;QlB04cd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBr5cA,iB;MlBq5cA,sC;QAaiB,Q;QAF
b,IArvNO,qBAAQ,CAqvNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aA
AU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB55cG,MAAO,KlB45cO,QkB55cP,ElB45c
iB,CkB55cjB,C;;QlB85cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBz6cA,iB;MlBy6cA,sC;QAaiB,Q;Q
AFb,IAjwNO,qBAAQ,CAiwNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,
aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBh7cG,MAAO,KlBg7cO,QkBh7cP,ElB
g7ciB,CkBh7cjB,C;;QlBk7cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB77cA,iB;MlB67cA,sC;QAaiB,
Q;QAFb,IA7wNO,qBAAQ,CA7wNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;Q
AAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp8cG,MAAO,KlBo8cO,QkBp8c
P,ElBo8ciB,CkBp8cjB,C;;QlBs8cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBj9cA,iB;MlBi9cA,sC;QA
aiB,Q;QAFb,IAzxNO,qBAAQ,CAyxNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B
;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBx9cG,MAAO,KlBw9cO,QkBx
9cP,ElBw9ciB,CkBx9cjB,C;;QlB09cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBr+cA,iB;MlBq+cA,sC;

QAaiB,Q;QAFb,IAryNO,qBAAQ,CAqyNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF
,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5+cG,MAAO,KlB4+cO,Qk
B5+cP,ElB4+ciB,CkB5+cjB,C;;QlB8+cd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBz/cA,iB;MlBy/cA,s
C;QAaiB,Q;QAFb,IAjzNO,qBAAQ,CAizNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QAC
F,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhgdG,MAAO,KlBggdO,
QkBhgdP,ElBggdiB,CkBhgdjB,C;;QlBkgdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB7gdA,iB;MlB6g
dA,sC;QAaiB,Q;QAFb,IA7zNO,qBAAQ,CA6zNf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C
;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBphdG,MAAO,KlBo
hdO,QkBphdP,ElBohdiB,CkBphdjB,C;;QlBshdd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,oC;MAAA,8D;MkBj
idA,iB;MlBiidA,sC;QAaiB,Q;QAFb,IAz0NO,qBAAQ,CAy0Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,C
AAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBxidG
,MAAO,KlBwidO,QkBxidP,ElBwidiB,CkBxidjB,C;;QlB0idd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MA
AA,sC;QAWiB,Q;QAFb,IA35NO,qBAAQ,CA25Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,
C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,
KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,
IAv6NO,qBAAQ,CAu6Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAA
U,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,
C;;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAn7NO,qBAAQ,CAm7
Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QA
AQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O
;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA/7NO,qBAAQ,CA+7Nf,C;UAAe,OAAO,I;QA
CtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,
CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;
MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA38NO,qBAAQ,CA28Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAA
K,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,
2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;
QAWiB,Q;QAFb,IAv9NO,qBAAQ,CAu9Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QAC
F,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,
C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAn+N
O,qBAAQ,CAm+Nf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CA
AV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;Q
AGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA/+NO,qBAAQ,CA++Nf,C;
UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,S
AAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;O;KAj
BX,C;+FAoBA,yB;MAAA,oC;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA3/NO,qBAAQ,CA2/Nf,C;UAAe,OAA
O,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAA
K,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;wFA
oBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAjlOO,qBAAQ,CAilOf,C;UAAe,MAAM,6B;QACrB
,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CA
AT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,
OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA/lOO,qBAAQ,CA+lOf,
C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QA
AQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C
;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QA
Fb,IA7mOO,qBAAQ,CA6mOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QA
Ab,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,C
AAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAA
A,8D;MAAA,kD;QAaiB,Q;QAFb,IA3nOO,qBAAQ,CA2nOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,C

AAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UA
AW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;
0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAzoOO,qBAAQ,CAyoOf,C;UAAe,MAAM,6B;Q
ACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAA
L,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QA
GnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAvpOO,qBAAQ,C
AupOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UA
CI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,C
AAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAai
B,Q;QAFb,IArqOO,qBAAQ,CAqqOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+
B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAA
kB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;
MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAnrOO,qBAAQ,CAmrOf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UA
AK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAA
I,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAn
BX,C;0FAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAjsOO,qBAAQ,CAisOf,C;UA
Ae,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,S
AAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YA
CI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;oGAsBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IArxOO,qB
AAQ,CAqxOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB
;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAk
C,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;Q
AFb,IAjyOO,qBAAQ,CAiyOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,a
AAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB
,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD
;QAWiB,Q;QAFb,IA7yOO,qBAAQ,CA6yOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QA
CF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,
EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAA
A,8D;MAAA,kD;QAWiB,Q;QAFb,IAzzOO,qBAAQ,CAyzOf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CA
AL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAA
W,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;s
GAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAr0OO,qBAAQ,CAq0Of,C;UAAe,OAAO,I;QACtB,eAAe,
SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;U
ACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,
Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAj1OO,qBAAQ,CAi1Of,C;UAAe,OAAO,I
;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CA
AL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YA
CI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IA71OO,qB
AAQ,CA61Of,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB
;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAk
C,CAAtC,C;YA
CI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAz2OO,qB
AAQ,CAy2Of,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB
;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAk
C,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;IAoBA,8B;MASiB,Q
;MAFb,IAv8OO,qBAAQ,CAu8Of,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,

CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkB3leG,MAAO,KlB2leE,GkB3leF,ElB2leO,CkB3leP,C;;MlB6
led,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IAv9OO,qBAAQ,CAu9Of,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkBtneG,MAAO,KlBsneE,
GkBtneF,ElBsneO,CkBtneP,C;;MlBwned,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IAr+OO,qBAAQ,CAq+Of,C;Q
AAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,
C;QACR,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA3
+OO,qBAAQ,CA2+Of,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;Q
ACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;M
AOiB,Q;MAFb,IAj/OO,qBAAQ,CAi/Of,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aA
AU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,
G;K;IAGX,gC;MAOiB,Q;MAFb,IAv/OO,qBAAQ,CAu/Of,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;M
ACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C
;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA7/OO,qBAAQ,CA6/Of,C;QAAe,OAAO,I;MACtB,UAAU,U
AAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,oBAAM,CAAN,
KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IArgPO,qBAAQ,CAqgPf,C;QAAe,O
AAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QAC
R,MkB5seG,MAAO,KlB4seE,GkB5seF,ElB4seO,CkB5seP,C;;MlB8sed,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,I
A7gPO,qBAAQ,CA6gPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;
QACI,QAAQ,UAAK,CAAL,C;QACR,MkBjteG,MAAO,KlBiteE,GkBjteF,ElBiteO,CkBjteP,C;;MlBmted,OAAO,
G;K;IAGX,gC;MAOiB,Q;MAFb,IA3gPO,qBAAQ,CA2gPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;M
ACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C
;;MAEvB,OAAO,G;K;IAGX,wC;MAGI,OAAO,yBAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;I
AGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,
2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAG
X,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,8C;MAOiB,Q;MAFb,
IA/oPO,qBAAQ,CA+oPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;
QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAA
oC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IArpPO,qBAAQ,CAqpPf,C;QAAe,OAAO,I;MA
CtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UA
AW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;M
AOiB,Q;MAFb,IA3pPO,qBAAQ,CA2pPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,a
AAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,
CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAjqPO,qBAAQ,CAiqPf,C;QAA
e,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;Q
ACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;
K;IAGX,gD;MAOiB,Q;MAFb,IAvqPO,qBAAQ,CAuqPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MA
CG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,
CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA7qPO,qBAAQ
,CA6qPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,U
AAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;
MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAnrPO,qBAAQ,CAnrPf,C;QAAe,OAAO,I;MACtB,UAAU,UA
AK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GA
AR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb
,IAzrPO,qBAAQ,CAyrPf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;
QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAA
oC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA/rPO,qBAAQ,CA/rPf,C;QAAe,OAAO,I;MAC
tB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAA
W,SAAQ,gBAAR,EAAa,cAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,wB;M

AII,OAAO,oB;K;IAGX,0B;MAII,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAG
X,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,s
B;K;IAGX,0B;MAGI,OAAO,sB;K;IAGX,0B;MAGI,OAAO,sB;K;gFAGX,yB;MAsDA,8D;MAtDA,sC;QAGW,sB
;;UA0DP,IAn4PO,qBAAQ,CAm4Pf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB
,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eA9DmB,QA8DJ,CAAS,OAAT,C;UA
Cf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAjEe,QAiEP,CAAS,CAAT,C;YACR,I
AAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QAvEP,yB;O;KAHJ,C;kF
AMA,yB;MAuEA,8D;MAvEA,sC;QAGW,sB;;UA2EP,IAl5PO,qBAAQ,CAk5Pf,C;YAAe,qBAAO,I;YAAP,uB;;U
ACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;U
ACpB,eA/EmB,QA+EJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YA
CR,QAlFe,QAkFP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UA
GnB,qBAAO,O;;;QAxFP,yB;O;KAHJ,C;kFAMA,yB;MAwFA,8D;MAxFA,sC;QAGW,sB;;UA4FP,IAj6PO,qBAA
Q,CAi6Pf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,
CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eAhGmB,QAgGJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,
SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAnGe,QAmGP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,K
AAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QAzGP,yB;O;KAHJ,C;kFAMA,yB;MAyGA,8D;
MAzGA,sC;QAGW,sB;;UA6GP,IAh7PO,qBAAQ,CAg7Pf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CA
AL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eAjHmB,QAiHJ
,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QApHe,QAoHP,CA
AS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QA1
HP,yB;O;KAHJ,C;kFAMA,yB;MA0HA,8D;MA1HA,sC;QAGW,sB;;UA8HP,IA/7PO,qBAAQ,CA+7Pf,C;YAAe,q
BAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qB
AAO,O;YAAP,uB;;UACpB,eAlImB,QAkIJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,
UAAK,CAAL,C;YACR,QArIe,QAqIP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cA
CV,WAAW,C;;;UAGnB,qBAAO,O;;;QA3IP,yB;O;KAHJ,C;kFAMA,yB;MA2IA,8D;MA3IA,sC;QAGW,sB;;UA+I
P,IA98PO,qBAAQ,CA88Pf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UA
CrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eAnJmB,QAmJJ,CAAS,OAAT,C;UACf,aAAU
,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAtJe,QAsJP,CAAS,CAAT,C;YACR,IAAI,2BAA
W,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QA5JP,yB;O;KAHJ,C;kFAMA,yB;M
A4JA,8D;MA5JA,sC;QAGW,sB;;UAgKP,IA79PO,qBAAQ,CA69Pf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,U
AAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eApK
mB,QAoKJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAvKe,
QAuKP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBA
AO,O;;;QA7KP,yB;O;KAHJ,C;kFAMA,yB;MA6KA,8D;MA7KA,sC;QAGW,sB;;UAiLP,IA5+PO,qBAAQ,CA4+P
f,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;
YAAoB,qBAAO,O;YAAP,uB;;UACpB,eArLmB,QAqLJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;Y
ACI,QAAQ,UAAK,CAAL,C;YACR,QAxLe,QAwLP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cAC
I,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QA9LP,yB;O;KAHJ,C;4FAMA,yB;MA8LA,8D;MAAA,oC;M
A9LA,sC;QAGW,sB;;UAkMP,IA3/PO,qBAAQ,CA2/Pf,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,UAAK,CAA
L,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eAtMmB,QAsMJ,
CAAS,oBAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,UAAK,CAAL,C;YACR,QAzMe,QAyMP,C
AAS,cAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QA
/MP,yB;O;KAHJ,C;4FAMA,yB;MAAA,8D;MAAA,sC;QAOI,IAn4PO,qBAAQ,CAm4Pf,C;UAAe,OAAO,I;QACt
B,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;YAAoB,OAAO,O;QAC
3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SA
AS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;O;KA
pBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IAl5PO,qBAAQ,CAk5Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAA
K,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;YAAoB,OAAO,O;QAC3B,eAAe,SA

AS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;
UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;8FAu
BA,yB;MAAA,8D;MAAA,sC;QAOI,IAj6PO,qBAAQ,CAi6Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;Q
ACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;Q
ACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2
BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA
,8D;MAAA,sC;QAOI,IAh7PO,qBAAQ,CAg7Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAq
B,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,
CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CA
AX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAA
A,sC;QAOI,IA/7PO,qBAAQ,CA+7Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,S
AAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OA
Aa,SAAb,M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,
C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,
IA98PO,qBAAQ,CA88Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QA
CrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,
M;UACI,QAAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,U
AAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA79PO,q
BAAQ,CA69Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,
cAAa,CAAjB,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,Q
AAQ,UAAK,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YA
CV,WAAW,C;;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,sC;QAOI,IA5+PO,qBAAQ,CA4
+Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAj
B,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK
,CAAL,C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,
C;;;QAGnB,OAAO,O;O;KApBX,C;8FAuBA,yB;MAAA,8D;MAAA,oC;MAAA,sC;QAOI,IA3/PO,qBAAQ,CA2/Pf,C;UAAe,OAAO,I;QACtB,cAAc,UAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,
C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,oBAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,UAAK,
CAAL,C;UACR,QAAQ,SAAS,cAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C
;;;;QAGnB,OAAO,O;O;KApBX,C;gFAuBA,yB;MAAA,sE;MAAA,8D;MkB/gfA,iB;MlB+gfA,sC;QAeiB,Q;QAFb,
IAxlQO,qBAAQ,CAwlQf,C;UAAe,MAAM,6BAA6B,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;
UAACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBxhfG,MAAO,KlBwhfO,QkBxhfP,ElBw
hfiB,CkBxhfjB,C;;QlB0hfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBrifA,iB;MlBqifA,sC;
QAeiB,Q;QAFb,IAtmQO,qBAAQ,CAsmQf,C;UAAe,MAAM,6BAA6B,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;
UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB9ifG,MAAO,KlB8ifO,QkB8ifP,ElB8ifiB,CkB9ifjB,C;;QlBgjfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkB3jfA,iB;M
lB2jfA,sC;QAeiB,Q;QAFb,IApnQO,qBAAQ,CApnQf,C;UAAe,MAAM,6BAA6B,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;
UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpkfG,MA
AO,KlBokfO,QkBpkfP,ElBokfiB,CkBpkfjB,C;;QlBskfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8
D;MkBjlfA,iB;MlBilfA,sC;QAeiB,Q;QAFb,IAloQO,qBAAQ,CAloQf,C;UAAe,MAAM,6BAA6B,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,
WkB1lfG,MAAO,KlB0lfO,QkB1lfP,ElB0lfiB,CkB1lfjB,C;;QlB4lfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,s
E;MAAA,8D;MkBvmfA,iB;MlBumfA,sC;QAeiB,Q;QAFb,IAhpQO,qBAAQ,CAhpQf,C;UAAe,MAAM,6BAA6B,UAAK,CAAL,C
AAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhnfG,MAAO,KlBgnfO,QkBhnfP,ElBgnfiB,CkBhnfjB,C;;QlBknfd,OAAO,Q;O;KAnBX,C;kF
AsBA,yB;MAAA,sE;MAAA,8D;MkB7nfA,iB;MlB6nfA,sC;QAeiB,Q;QAFb,IA9pQO,qBAAQ,CA8pQf,C;UAAe,
MAAM,6BAA6B,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBtofG,MAAO,KlBsofO,QkBtofP,ElBsofiB,CkBtofjB,C;;QlBwofd,OAAO,Q;O

;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBnpfA,iB;MlBmpfA,sC;QAeiB,Q;QAFb,IA5qQO,qBAAQ,CA4qQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5pfG,MAAO,KlB4pfO,QkB5pfP,ElB4pfiB,CkB5pfjB,C;;QlB8pfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBzqfA,iB;MlByqfA,sC;QAeiB,Q;QAFb,IA1rQO,qBAAQ,CA0rQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBlrfG,MAAO,KlBkrfO,QkBlrfP,ElBkrfiB,CkBlrfjB,C;;QlBorfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MkB/rfA,iB;MlB+rfA,sC;QAeiB,Q;QAFb,IAxsQO,qBAAQ,CAwsQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBxsfG,MAAO,KlBwsfO,QkBxsfP,ElBwsfiB,CkBxsfjB,C;;QlB0sfd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBhufA,iB;MlBgufA,sC;QAeiB,Q;QAFb,IA9xQO,qBAAQ,CA8xQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBzufG,MAAO,KlByufO,QkBzufP,ElByufiB,CkBzufjB,C;;QlB2ufd,OAAO,Q;O;KAnBX,C;kFAsBA,yB;MAAA,sE;MAAA,8D;MkBtvfA,iB;MlBsvfA,sC;QAeiB,Q;QAFb,IA5yQO,qBAAQ,CA4yQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/vfG,MAAO,KlB+vfO,QkB/vfP,ElB+vfiB,CkB/vfjB,C;;QlBiwfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB5wfA,iB;MlB4wfA,sC;QAeiB,Q;QAFb,IA1zQO,qBAAQ,CA0zQf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBrxfG,MAAO,KlBqxfO,QkBrxfP,ElBqxfiB,CkBrxfjB,C;;QlBuxfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBlyfA,iB;MlBkyfA,sC;QAeiB,Q;QAFb,IAx0QO,qBAAQ,CAw0Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB3yfG,MAAO,KlB2yfO,QkB3yfP,ElB2yfiB,CkB3yfjB,C;;QlB6yfd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBxzfA,iB;MlBwzfA,sC;QAeiB,Q;QAFb,IAt1QO,qBAAQ,CAs1Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBj0fG,MAAO,KlBi0fO,QkBj0fP,ElBi0fiB,CkBj0fjB,C;;QlBm0fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkB90fA,iB;MlB80fA,sC;QAeiB,Q;QAFb,IAp2QO,qBAAQ,CAo2Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv1fG,MAAO,KlBu1fO,QkBv1fP,ElBu1fiB,CkBv1fjB,C;;QlBy1fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MkBp2fA,iB;MlBo2fA,sC;QAeiB,Q;QAFb,IAl3QO,qBAAQ,CAk3Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB72fG,MAAO,KlB62fO,QkB72fP,ElB62fiB,CkB72fjB,C;;QlB+2fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MkBh5fA,iB;MlBg5fA,sC;QAeiB,Q;QAFb,IA94QO,qBAAQ,CA84Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBz5fG,MAAO,KlBy5fO,QkBz5fP,ElBy5fiB,CkBz5fjB,C;;QlB25fd,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAl+QO,qBAAQ,CAk+Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAh/QO,qBAAQ,CAh/Qf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA9gRO,qBAAQ,CA8gRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IA5gRO,qBAAQ,CA4gRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL

,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,
CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,s
C;QAaiB,Q;QAFb,IA1hRO,qBAAQ,CA0hRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;
QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,K
AAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,
Q;QAFb,IAxiRO,qBAAQ,CAwiRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;
QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YA
CI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,I
AtjRO,qBAAQ,CAsjRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAA
U,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,
C;;;QAGnB,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IApkRO,qBA
AQ,CAokRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,i
B;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB
,OAAO,Q;O;KAnBX,C;mFAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA,sC;QAaiB,Q;QAFb,IAllRO,qBA
AQ,CAklRf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,i
B;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGn
B,OAAO,Q;O;KAnBX,C;4FAsBA,yB;MAAA,8D;MkBjmgBA,iB;MlBimgBA,sC;QAaiB,Q;QAFb,IAxqRO,qBAA
Q,CAwqRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;U
ACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBxmgBG,MAAO,KlBwmgBO,QkBxmgBP,ElBwmgBiB,C
kBxmgBjB,C;;QlB0mgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBrngBA,iB;MlBqngBA,sC;QAaiB,
Q;QAFb,IAprRO,qBAAQ,CAorRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QA
Ab,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB5ngBG,MAAO,KlB4ngBO,QkB5n
gBP,ElB4ngBiB,CkB5ngBjB,C;;QlB8ngBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBzogBA,iB;MlByo
gBA,sC;QAaiB,Q;QAFb,IAhsRO,qBAAQ,CAgsRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,
C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhpgBG,MAAO,Kl
BgpgBO,QkBhpgBP,ElBgpgBiB,CkBhpgBjB,C;;QlBkpgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7
pgBA,iB;MlB6pgBA,sC;QAaiB,Q;QAFb,IA5sRO,qBAAQ,CA4sRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAA
K,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBp
qgBG,MAAO,KlBoqgBO,QkBpqgBP,ElBoqgBiB,CkBpqgBjB,C;;QlBsqgBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;
MAAA,8D;MkBjrgBA,iB;MlBirgBA,sC;QAaiB,Q;QAFb,IAxtRO,qBAAQ,CAwtRf,C;UAAe,OAAO,I;QACtB,eA
Ae,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;UACR,WkBxrgBG,MAAO,KlBwrgBO,QkBxrgBP,ElBwrgBiB,CkBxrgBjB,C;;QlB0rgBd,OAAO,Q;O;KAjBX,C
;8FAoBA,yB;MAAA,8D;MkBrsgBA,iB;MlBqsgBA,sC;QAaiB,Q;QAFb,IApuRO,qBAAQ,CAouRf,C;UAAe,OAA
O,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,
CAAL,CAAT,C;UACR,WkB5sgBG,MAAO,KlB4sgBO,QkB5sgBP,ElB4sgBiB,CkB5sgBjB,C;;QlB8sgBd,OAAO,
Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkBztgBA,iB;MlBytgBA,sC;QAaiB,Q;QAFb,IAhvRO,qBAAQ,CAgvRf,
C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,
SAAS,UAAK,CAAL,CAAT,C;UACR,WkBhugBG,MAAO,KlBgugBO,QkBhugBP,ElBgugBiB,CkBhugBjB,C;;Ql
BkugBd,OAAO,Q;O;KAjBX,C;8FAoBA,yB;MAAA,8D;MkB7ugBA,iB;MlB6ugBA,sC;QAaiB,Q;QAFb,IA5vRO,
qBAAQ,CA4vRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,
iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBpvgBG,MAAO,KlBovgBO,QkBpvgBP,ElBovgBiB,C
kBpvgBjB,C;;QlBsvgBd,OAAO,Q;O;KAjBX,C;8FAoBA,oC;MAAA,8D;MkBjwgBA,iB;MlBiwgBA,s
C;QAaiB,Q;QAFb,IAxwRO,qBAAQ,CAwwRf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;Q
ACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,WkBxwgBG,MAAO,KlB
wwgBO,QkBxwgBP,ElBwwgBiB,CkBxwgBjB,C;;QlB0wgBd,OAAO,Q;O;KAjBX,C;8FAoBA,8D;Mk
BhygBA,iB;MlBgygBA,sC;QAaiB,Q;QAFb,IA51RO,qBAAQ,CA41Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UA
AK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,Wk
BvygBG,MAAO,KlBuygBO,QkBvygBP,ElBuygBiB,CkBvygBjB,C;;QlByygBd,OAAO,Q;O;KAjBX,C;8FAoBA,y

B;MAAA,8D;MkBpzgBA,iB;MlBozgBA,sC;QAaiB,Q;QAFb,IAx2RO,qBAAQ,CAw2Rf,C;UAAe,OAAO,I;QACt
B,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,C
AAT,C;UACR,WkB3zgBG,MAAO,KlB2zgBO,QkB3zgBP,ElB2zgBiB,CkB3zgBjB,C;;QlB6zgBd,OAAO,Q;O;KA
jBX,C;+FAoBA,yB;MAAA,8D;MkBx0gBA,iB;MlBw0gBA,sC;QAaiB,Q;QAFb,IAp3RO,qBAAQ,CAo3Rf,C;UA
Ae,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS
,UAAK,CAAL,CAAT,C;UACR,WkB/0gBG,MAAO,KlB+0gBO,QkB/0gBP,ElB+0gBiB,CkB/0gBjB,C;;QlBi1gBd,
OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkB51gBA,iB;MlB41gBA,sC;QAaiB,Q;QAFb,IAh4RO,qBAAQ,
CAg4Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UAC
I,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBn2gBG,MAAO,KlBm2gBO,QkBn2gBP,ElBm2gBiB,CkBn2g
BjB,C;;QlBq2gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBh3gBA,iB;MlBg3gBA,sC;QAaiB,Q;QAFb
,IA54RO,qBAAQ,CA44Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAA
U,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkBv3gBG,MAAO,KlBu3gBO,QkBv3gBP,ElB
u3gBiB,CkBv3gBjB,C;;QlBy3gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBp4gBA,iB;MlBo4gBA,sC;
QAaiB,Q;QAFb,IAx5RO,qBAAQ,CAw5Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QAC
F,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB34gBG,MAAO,KlB24gB
O,QkB34gBP,ElB24gBiB,CkB34gBjB,C;;QlB64gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MkBx5gBA,
iB;MlBw5gBA,sC;QAaiB,Q;QAFb,IAp6RO,qBAAQ,CAo6Rf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CA
AL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,WkB/5gBG,
MAAO,KlB+5gBO,QkB/5gBP,ElB+5gBiB,CkB/5gBjB,C;;QlBi6gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,
8D;MkB56gBA,iB;MlB46gBA,sC;QAaiB,Q;QAFb,IAh7RO,qBAAQ,CAg7Rf,C;UAAe,OAAO,I;QACtB,eAAe,SA
AS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UA
CR,WkBn7gBG,MAAO,KlBm7gBO,QkBn7gBP,ElBm7gBiB,CkBn7gBjB,C;;QlBq7gBd,OAAO,Q;O;KAjBX,C;+
FAoBA,yB;MAAA,oC;MAAA,8D;MkBh8gBA,iB;MlBg8gBA,sC;QAaiB,Q;QAFb,IA57RO,qBAAQ,CA47Rf,C;U
AAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SA
AS,sBAAK,CAAL,EAAT,C;UACR,WkBv8gBG,MAAO,KlBu8gBO,QkBv8gBP,ElBu8gBiB,CkBv8gBjB,C;;QlBy
8gBd,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA9gSO,qBAAQ,CA8gSf,C;U
AAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SA
AS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjB
X,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA1hSO,qBAAQ,CA0hSf,C;UAAe,OAAO,I;QACtB,e
AAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAA
T,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAA
A,8D;MAAA,sC;QAWiB,Q;QAFb,IAtiSO,qBAAQ,CAsiSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,
CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,
CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,
Q;QAFb,IAljSO,qBAAQ,CAkjSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAA
b,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,W
AAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA9jSO,qBAAQ,
CA8jSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,
QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,
Q;O;KAjBX,C;+FAoBA,yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IA1kSO,qBAAQ,CA0kSf,C;UAAe,OAAO,I;
QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CA
AL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,
yB;MAAA,8D;MAAA,sC;QAWiB,Q;QAFb,IAtlSO,qBAAQ,CAslSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAA
K,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,
2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;+FAoBA,yB;MAAA,oC;MAAA,8D;
MAAA,sC;QAWiB,Q;Q

AFb,IA9mSO,qBAAQ,CA8mSf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;QAA
b,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,W
AAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IApsS
O,qBAAQ,CAosSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,C
AAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX
,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAA
A,kD;QAaiB,Q;QAFb,IAltSO,qBAAQ,CAktSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C
;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QA
AR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;M
AAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAhuSO,qBAAQ,CAguSf,C;UAAe,MAAM,6B;QACrB,eAAe,SA
AS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UA
CR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;
O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA9uSO,qBAAQ,CA8uSf,C;UAAe,
MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS
,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,W
AAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IA5vS
O,qBAAQ,CA4vSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,C
AAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX
,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAA
A,kD;QAaiB,Q;QAFb,IA1wSO,qBAAQ,CA0wSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT
,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,
QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB
;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAxxSO,qBAAQ,CAwxSf,C;UAAe,MAAM,6B;QACrB,eAAe
,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;
UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO
,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,8D;MAAA,kD;QAaiB,Q;QAFb,IAtySO,qBAAQ,CAsySf,C;UAA
e,MAAM,6B;QACrB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAA
S,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,
WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;0FAsBA,yB;MAAA,sE;MAAA,oC;MAAA,8D;MAAA,kD;QAaiB,Q;
QAFb,IApzSO,qBAAQ,CAozSf,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,EAAT,C;QACF,+B;Q
AAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,
CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;oGAsBA,yB;MAAA,8D;M
AAA,kD;QAWiB,Q;QAFb,IAx4SO,qBAAQ,CAw4Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAA
T,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,
QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB
;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAp5SO,qBAAQ,CAo5Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAA
K,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,U
AAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX
,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAh6SO,qBAAQ,CAg6Sf,C;UAAe,OAAO,I;QACtB,eA
Ae,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,
C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OA
AO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IA56SO,qBAAQ,CA46Sf,C;UAAe,OA
AO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAA
K,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,
C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAx7SO,qBAAQ,CAw7
Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAA
Q,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;
YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAp8SO,

qBAAQ,CAo8Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAAb,aAAU,CAAV,
iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAA
kC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAAA,kD;QAWiB,Q;
QAFb,IAh9SO,qBAAQ,CAg9Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;QACF,+B;QAA
b,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CA
AlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;MAAA,8D;MAA
A,kD;QAWiB,Q;QAFb,IA59SO,qBAAQ,CA49Sf,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,UAAK,CAAL,CAAT,C;
QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,UAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QA
AR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;sGAoBA,yB;M
AAA,oC;MAAA,8D;MAAA,kD;QAWiB,Q;QAFb,IAx+SO,qBAAQ,CAw+Sf,C;UAAe,OAAO,I;QACtB,eAAe,SA
AS,sBAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,EAAT,C;UA
CR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;
O;KAjBX,C;IAoBA,8B;MASiB,Q;MAFb,IA1jTO,qBAAQ,CA0jTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CA
AL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkB1/hBG,MAAO,KlB0/hBE,
GkB1/hBF,ElB0/hBO,CkB1/hBP,C;;MlB4/hBd,OAAO,G;K;IAGX,gC;MASiB,Q;MAFb,IA1kTO,qBAAQ,CA0kTf
,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,C
AAL,C;QACR,MkBrhiBG,MAAO,KlBqhiBE,GkBrhiBF,ElBqhiBO,CkBrhiBP,C;;MlBuhiBd,OAAO,G;K;IAGX,g
C;MAOiB,Q;MAFb,IAxlTO,qBAAQ,CAwlTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MA
Ab,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MA
EvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA9lTO,qBAAQ,CA8lTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,
CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAA
a,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IApmTO,qBAAQ,CAomTf,C;QAAe,OAAO,I;MA
CtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MA
AM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAOiB,Q;MAFb,IA1mTO,qBAAQ,CA0mTf,C;
QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL
,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;MAhnTO,q
BAAQ,CAgnTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QA
AQ,UAAK,CAAL,C;QACR,IAAI,oBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,gC;M
ASiB,Q;MAFb,IAxnTO,qBAAQ,CAwnTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,a
AAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkB3miBG,MAAO,KlB2miBE,GkB3miBF,ElB2miBO,Ck
B3miBP,C;;MlB6miBd,OAAO,G;K;IAGX,gC;MAhoTO,qBAAQ,CAgoTf,C;QAAe,OAAO,I;MA
CtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,MkBBhniB
G,MAAO,KlBAgniBE,GkBAgniBF,ElBAgniBO,CkBAgniBP,C;;MlBEgniBd,OAAO,G;K;IAGX,gC;MA9mniBO,q
BAAQ,CA8nTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QA
CI,QAAQ,UAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,wC;MA
GI,OAAO,yBAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAA
d,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,
OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,
C;K;IAGX,8C;MAOiB,Q;MAFb,IAlwTO,qBAAQ,CAkwTf,C;QAAe
,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,+B;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;Q
ACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;
K;IAGX,gD;MAOiB,Q;MAFb,IAxwTO,qBAAQ,CAwwTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;M
ACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAA
b,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,9wTO,qBA
AQ,CA8wTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAA
Q,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,
C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IApxTO,qBAAQ,CAoxTf,C;QAAe,OAAO,I;MACtB,UAAU,
UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,

GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;M
AFb,IA1xTO,qBAAQ,CA0xTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAA
V,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;
UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAhyTO,qBAAQ,CAgyTf,C;QAAe,OAAO,
I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAA
I,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,
gD;MAOiB,Q;MAFb,IAtyTO,qBAAQ,CAsyTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MA
Ab,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GA
A6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,gD;MAOiB,Q;MAFb,IA5yTO,qBAAQ,CA4yTf,C
;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAA
L,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OA
AO,G;K;IAGX,gD;MAOiB,Q;MAFb,IAlzTO,qBAAQ,CAkzTf,C;QAAe,OAAO,I;MACtB,UAAU,UAAK,CAAL,
C;MACG,iC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,UAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,gBAAR,EAAa,
cAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,yB;MAMI,OAj4TO,qBAAQ,C;
K;IAo4TnB,2B;MAMI,OAl4TO,qBAAQ,C;K;IAq4TnB,2B;MAMI,OAn4TO,qBAAQ,C;K;IAs4TnB,2B;MAMI,O
Ap4TO,qBAAQ,C;K;IAu4TnB,2B;MAMI,OAr4TO,qBAAQ,C;K;IAw4TnB,2B;MAMI,OAt4TO,qBAAQ,C;K;IAy
4TnB,2B;MAMI,OAv4TO,qBAAQ,C;K;IA04TnB,2B;MAMI,OAx4TO,qBAAQ,C;K;IA24TnB,2B;MAMI,OAz4T
O,qBAAQ,C;K;gFA44TnB,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IA
AI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;gFAGX,gC;MAMoB,Q;MAAhB,wBAAgB,S
AAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;
K;iFAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,
CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,c
AAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MAM
oB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,O
AAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q
AAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MAMoB,Q;MAAhB,wB
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,
OAAO,I;K;iFAGX,gC;MAMoB,Q;MAAhB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,IAAI,UAA
U,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAMo
B,Q;QAAhB,wBAAgB,SAAhB,gB;QUAAgB,cAAhB,UAAgB,SAAhB,O;UAAsB,IAAI,UAAU,oBAAV,CAAJ,C;Y
AAwB,OAAO,K;;QACrD,OAAO,I;O;KAPX,C;kFAUA,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,O
AAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;M
AArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFA
GJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,
Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QA
AgB,cAAhB,e;QAAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;Q
AAsB,OAAO,OAAP,C;;MAArC,gB;K;oFAGJ,6B;MAMmC,Q;MAAhB,iD;QAAgB,cAAhB,e;QAAsB,OAAO,OA
AP,C;;MAArC,gB;K;oFAGJ,yB;MAAA,oC;MAAA,gC;MAAA,oC;QAMmC,Q;QAAhB,iD;QUAAgB,cAAhB,0B;Q
UAAsB,OAAO,oBAAP,C;;MAArC,gB;O;KANJ,C;gGASA,6B;MAArjiB,gB;MADb,YAAY,C;MACZ,iD;QAAa,W
AAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MA8jJnB,gB;K;kGAGJ,6B;MADb,YAAY,C;
MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAgkJnB,gB;K;kGAGJ,6
B;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MA3jJ
nB,gB;K;kGAGJ,6B;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAg
B,IAAhB,C;;MAokJnB,gB;K;kGAGJ,6B;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EA
AO,sBAAP,WAAgB,IAAhB,C;;MAskJnB,gB;K;kGAGJ,6B;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAm
B,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAjkJnB,gB;K;kGAGJ,6B;MADb,YAAY,C;MACZ,iD;QA
Aa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MA0kJnB,gB;K;kGAGJ,6B;MADb,YA
AY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MA0jJnB,gB;K;kG
AGJ,6B;MADb,YAAY,C;MACZ,iD;QAAa,WAAb,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;
MA0kJnB,gB;K;kGAGJ,6B;MADb,YAAY,C;MACZ,iD;QAAa,WAA

b,e;QAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MA4kJnB,gB;K;kGAGJ,yB;MAAA,6B;MAAA,sC;
MA5kJA,oC;MAAA,gC;MA4kJA,2BASiB,yB;QArlJjB,oC;QAAA,gC;eAqlJiB,0B;UAAA,4B;YAAE,aAAe,c;YA9
kJjB,gB;YADb,YAAY,C;YACZ,iD;cAAa,WAAb,0B;cAAmB,QAAO,cAAP,EAAO,sBAAP,WAAgB,iBAAhB,C;;
YA8kJmB,W;W;S;OAAzB,C;MATjB,oC;QArkJiB,gB;QADb,YAAY,C;QACZ,iD;UAAa,WAAb,0B;UAAmB,QA
AO,cAAP,EAAO,sBAAP,WAAgB,iBAAhB,C;;QA8kJnB,gB;O;KATJ,C;kFAYA,yB;MAAA,4F;MAAA,8D;MAA
A,uC;QAgBqB,Q;QAHjB,IAhvUO,qBAAQ,CAgvUf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAqB,U
AAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,
C;;QAElB,OAAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA9vUO,q
BAAQ,CA8vUf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iB
AAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAAO,W;O;KAnBX,C;o
FAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA5wUO,qBAAQ,CA4wUf,C;UACI,MAAM,m
CAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,
WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;M
AAA,uC;QAgBqB,Q;QAHjB,IA1xUO,qBAAQ,CA0xUf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB
,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAv
B,C;;QAElB,OAAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxyUO
,qBAAQ,CAwyUf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,i
BAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAAO,W;O;KAnBX,C;
oFAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAtzUO,qBAAQ,CAszUf,C;UACI,MAAM,m
CAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,
WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;M
AAA,uC;QAgBqB,Q;QAHjB,IAp0UO,qBAAQ,CAo0Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB
,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAv
B,C;;QAElB,OAAAO,W;O;KAnBX,C;oFAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAl1UO,
qBAAQ,CAk1Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iB
AAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAAO,W;O;KAnBX,C;o
FAsBA,yB;MAAA,4F;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;QAgBqB,Q;QAHjB,IAh2UO,qBAAQ,CAg2
Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,y
B;UACI,cAAc,oBAAU,wBAAV,EAAuB,sBAAK,KAAL,EAAvB,E;;QAElB,OAAAO,W;O;KAnBX,C;gGAsBA,yB;
MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAt7UO,qBAAQ,CAs7Uf,C;UACI,MAAM,mCAA8B,+BA
A9B,C;QACV,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAi
B,WAAjB,EAAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D
;MAAA,uC;QAgBqB,Q;QAHjB,IAp8UO,qBAAQ,CAo8Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAA
kB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAiB,WAAjB,EAAiB,W
AAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAA
A,uC;QAgBqB,Q;QAHjB,IAl9UO,qBAAQ,CAk9Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,U
AAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAiB,WAAjB,EAAiB,WAAjB,
EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,u
C;QAgBqB,Q;QAHjB,IAh+UO,qBAAQ,CAg+Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAA
K,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAiB,WAAjB,EAAiB,WAAjB,EA
A8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QA
gBqB,Q;QAHjB,IA9+UO,qBAAQ,CA8+Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CA
AL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAiB,WAAjB,EAAiB,WAAjB,EAA8B,U
AAK,KAAL,CAA9B,C;;QAElB,OAAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqb
,Q;QAHjB,IA5/UO,qBAAQ,CA4/Uf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;Q
ACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAiB,WAAjB,EAAiB,WAAjB,EAA8B,UAAK,K
AAL,CAA9B,C;;QAElB,OAAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QAgBqB,Q;QAH
jB,IA1gVO,qBAAQ,CA0gVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CAAL,C;QACD,+B;
QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAiB,WAAjB,EAA

8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,uC;QA
gBqB,Q;QAHjB,IAxhVO,qBAAQ,CAwhVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CA
AL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,C
AA9B,C;;QAElB,OAAO,W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;
QAgBqB,Q;QAHjB,IAtiVO,qBAAQ,CAsiVf,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,UAAK,CA
AL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,KAAV,EAAiB,wBAAjB,EAA8B,sBAAK,KAA
L,EAA9B,E;;QAElB,OAAO,W;O;KAnBX,C;4GAsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA5nVO,q
BAAQ,CA4nVf,C;UACI,OAAO,I;QACX,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,c
AAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;8GAsBA,
yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA1oVO,qBAAQ,CA0oVf,C;UACI,OAAO,I;QACX,kBAAkB,UA
AK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,K
AAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;8GAsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAxpV
O,qBAAQ,CAwpVf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;U
ACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;8G
AsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAtqVO,qBAAQ,CAsqVf,C;UACI,OAAO,I;QACX,kBAAk
B,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UA
AK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;8GAsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,I
AprVO,qBAAQ,CAorVf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,y
B;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C
;8GAsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IAlsVO,qBAAQ,CAksVf,C;UACI,OAAO,I;QACX,kBA
AkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,
UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;8GAsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHj
B,IAhtVO,qBAAQ,CAgtVf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd
,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,
C;8GAsBA,yB;MAAA,8D;MAAA,uC;QAgBqB,Q;QAHjB,IA9tVO,qBAAQ,CA8tVf,C;UACI,OAAO,I;QACX,kB
AAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8
B,UAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAnBX,C;8GAsBA,yB;MAAA,8D;MAAA,oC;MAAA,gC;MA
AA,uC;QAgBqB,Q;QAHjB,IA5uVO,qBAAQ,CA4uVf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QAC
D,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,KAAV,EAAiB,wBAAjB,EAA8B,sBAAK,KAAL,EAA9B,E
;;QAElB,OAAO,W;O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,IAn0VO,qBAAQ,CAm0
Vf,C;UACI,OAAO,I;QACX,kBAAqB,UAAK,CAAL,C;QACJ,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,
WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;Q
AiBqB,Q;QAHjB,IAl1VO,qBAAQ,CAk1Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAA
jB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KApBX
,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,IAj2VO,qBAAQ,CAi2Vf,C;UACI,OAAO,I;QACX,kB
AAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,
CAAvB,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,IAh3VO,qBA
AQ,CAg3Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cA
Ac,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;M
AAA,uC;QAiBqB,Q;QAHjB,IA/3VO,qBAAQ,CA+3Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QAC
D,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAO,W
;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,IA94VO,qBAAQ,CA84Vf,C;UACI,OAAO
,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,U
AAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,
IA75VO,qBAAQ,CA65Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,
yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KApBX,C;gGAuBA,yB;
MAAA,8D;MAAA,uC;QAiBqB,Q;QAHjB,IA56VO,qBAAQ,CA46Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,
CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,UAAK,KAAL,CAAvB,C;;Q

AElB,OAAO,W;O;KApBX,C;gGAuBA,yB;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;QAiBqB,Q;QAHjB,IA3
7VO,qBAAQ,CA27Vf,C;UACI,OAAO,I;QACX,kBAAkB,UAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;
UACI,cAAc,oBAAU,wBAAV,EAAuB,sBAAK,KAAL,EAAvB,E;;QAElB,OAAO,W;O;KApBX,C;4FAuBA,yB;M
AAA,8D;MAAA,4F;MAAA,uC;QAe6B,UAEO,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAA
M,mCAA8B,+BAA9B,C;QACrB,kBAAqB,UAAI,YAAJ,EAAI,oBAAJ,O;QACrB,OAAO,SAAS,CAAhB,C;UACI,
cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAnBX,C;8FAsBA,yB
;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,M
AAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;U
ACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAnBX,C;8FAsB
A,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAA
e,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C
;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAnBX,C;8FAs
BA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UA
Ae,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB
,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAnBX,C;8F
AsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;
UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CA
AhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAnBX,
C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAA
Z,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,
CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAn
BX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,C
AAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SA
AS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;
O;KAnBX,C;8FAsBA,yB;MAAA,8D;MAAA,4F;MAAA,oC;MAAA,gC;MAAA,uC;QAe0B,UAEU,M;QAJhC,YA
AY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI
,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,sBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,wB
AAxB,E;;QAElB,OAAO,W;O;KAnBX,C;0GAsBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe6B,Q;QAFzB,YAA
Y,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAqB,UAAI,YAAJ,EAAI,o
BAAJ,O;QACrB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WA
A7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,Q;QAFt
B,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,
EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA
6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QAe0B,
Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,
YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAj
B,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA,uC;QA
e0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,U
AAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,
CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;MAAA,u
C;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAA
kB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,K
AAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MAAA,4F;
MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QA
CrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB

,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,8D;MA
AA,4F;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9
B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV
,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;MAAA,
8D;MAAA,4F;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+
BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,
KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;4GAuBA,yB;
MAAA,8D;MAAA,4F;MAAA,oC;MAAA,gC;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAA
Z,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,
CAAhB,C;UACI,cAAc,oBAAU,KAAV,EAAiB,sBAAI,KAAJ,EAAjB,EAA6B,wBAA7B,E;UACd,qB;;QAEJ,OA
AO,W;O;KApBX,C;sHAuBA,yB;MAAA,8D;MAAA,uC;QAe6B,Q;QAFzB,YAAY,wB;QACZ,IAAI,QAAQ,CAA
Z,C;UAAe,OAAO,I;QACtB,kBAAqB,UAAI,YAAJ,EAAI,oBAAJ,O;QACrB,OAAO,SAAS,CAAhB,C;UACI,cAA
c,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHA
uBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QAC
tB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,
UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MA
AA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAA
J,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EA
A6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB
,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QACl
B,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,q
B;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,
QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,
C;UACI,cAAc,UAAU,KAAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;K
ApBX,C;wHAuBA,yB;MAAA,8D;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,
OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,K
AAV,EAAiB,UAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wHAuBA,oC;M
AAA,gC;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAk
B,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,KAAV,EAAiB,sBAAI,K
AAJ,EAAjB,EAA6B,wBAA7B,E;UACd,qB;;QAEJ,OAAO,W;O;KApBX,C;wGAuBA,yB;MAAA,8D;MAAA,uC;
QAgB6B,UAEO,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAqB,UAAI,YA
AJ,EAAI,oBAAJ,O;QACrB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAA
wB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,
YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QACl
B,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,
OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,
QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,
C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0
GAuBA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,
OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,U
AAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;M
AAA,uC;QAgB0B,UAEU,M;QAJh
C,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAC

lB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,O
AAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,Q
AAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;
UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAu
BA,yB;MAAA,8D;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAA
O,I;QACtB,kBAAkB,UAAI,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,c
AAJ,EAAI,sBAAJ,SAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,
uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI
,YAAJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,UAAI,cAAJ,EAAI,sBAAJ,SAAV,E
AAwB,WAAxB,C;;QAElB,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,8D;MAAA,oC;MAAA,gC;MAAA,uC;Q
AgB0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,UAAI,YA
AJ,EAAI,oBAAJ,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,sBAAI,cAAJ,EAAI,sBAAJ,UAAV,EA
AwB,wBAAxB,E;;QAElB,OAAO,W;O;KApBX,C;4FAuBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAgBoB,Q;Q
AHhB,IAp0XO,qBAAQ,CAo0Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,
C;QAA+B,8B;QAA5C,aiBj9mBO,W;QjBk9mBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAh
B,M;UACI,cAAc,UAAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KApB
X,C;8FAuBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAgBoB,Q;QAHhB,IAp1XO,qBAAQ,CAo1Xf,C;UAAe,OA
AO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBz+mBO,W;QjB0+
mBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAAU,WAAV,EAAuB,O
AAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KApBX,C;8FAuBA,yB;MAAA,gD;MAAA,gE;MAA
A,mB;MAAA,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjgnBO,W;QjBkgnBP,kBAAkB,O;QAClB,wBAAgB,SAAh
B,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;
;QAEX,OAAO,M;O;KApBX,C;8FAuBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAgBoB,Q;QAHhB,IAp3XO,qBA
AQ,CAo3Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5
C,aiBzhnBO,W;QjB0hnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UA
AV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAuBA,yB;MAAA,gD;
MAAA,gE;MAAA,gD;QAgBoB,Q;QAHhB,IAp4XO,qBAAQ,CAo4Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,
kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjjnBO,W;QjBkjnBP,kBAAkB,O;QAClB,wBAAg
B,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,W
AAJ,C;;QAEX,OAAO,M;O;KApBX,C;8FAuBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAgBoB,Q;QAHhB,IAp5
XO,qBAAQ,CAo5Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,
8B;QAA5C,aiBzknBO,W;QjB0knBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,c
AAc,UAAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;8FAuB
A,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAgBoB,Q;QAHhB,IAp6XO,qBAAQ,CAo6Xf,C;UAAe,OAAO,OAAO,
OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBjmnBO,W;QjBkmnBP,kBAAkB,
O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAc,UAAAU,WAAV,EAAuB,OAAvB,C;UAC
d,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAPX,C;8FAuBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAgBoB
,Q;QAHhB,IAp7XO,qBAAQ,CAo7Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,
IAAb,C;QAA+B,8B;QAA5C,aiBznnBO,W;QjB0nnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAA,S
AAhB,M;UACI,cAAc,UAAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;
KArBX,C;8FAuBA,yB;MAAA,gD;MAAA,gE;MAAA,oC;MAAA,gC;MAAA,gD;QAgBoB,Q;QAHhB,IAp8XO,qB
AAQ,CAo8Xf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA
5C,aiBjpnBO,W;QjBkpnBP,kBAAkB,O;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,
cAAc,UAAAU,WAAV,EAAuB,oBAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;0GA
wBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAcI,IA5hYO,qBAAQ,CA4hYf,C;UAAe,OAAO,OAAO,OAAP,C;Q
ACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBzqnBO,W;QjB0qnBP,kBAAkB,O;QAClB,
wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,

C;;QAEX,OAAO,M;O;KArBX,C;4GAwBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAeI,IA7iYO,qBAAQ,CA6iYf
,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBlsnBO,
W;QjBmsnBP,kBAAkB,O;QAClB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9
B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,g
D;QAeI,IA9jYO,qBAAQ,CA8jYf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,
C;QAA+B,8B;QAA5C,aiB3tnBO,W;QjB4tnBP,kBAAkB,O;QAClB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WA
AjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;4GAyBA,y
B;MAAA,gD;MAAA,gE;MAAA,gD;QAeI,IA/kYO,qBAAQ,CA+kYf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kB
AAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBpvnBO,W;QjBqvnBP,kBAAkB,O;QAClB,wD;UA
CI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAE
X,OAAO,M;O;KAtBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAeI,IAhmYO,qBAAQ,CAgmYf,C;U
AAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiB7wnBO,W;
QjB8wnBP,kBAAkB,O;QAClB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,
C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD
;QAeI,IAjnYO,qBAAQ,CAinYf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C
;QAA+B,8B;QAA5C,aiBtynBO,W;QjBuynBP,kBAAkB,O;QAClB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAj
B,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;4GAyBA,yB;
MAAA,gD;MAAA,gE;MAAA,gD;QAeI,IAloYO,qBAAQ,CAkoYf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBA
AvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiB/znBO,W;QjBg0nBP,kBAAkB,O;QAClB,wD;UACI,
cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,
OAAO,M;O;KAtBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAeI,IAnpYO,qBAAQ,CAmpYf,C;UAAe
,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,aiBx1nBO,W;QjBy
1nBP,kBAAkB,O;QAClB,wD;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;CUA
Cd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;4GAyBA,yB;MAAA,gD;MAAA,gE;MAAA,oC;MAA
A,gD;QAeI,IApqYO,qBAAQ,CAoqYf,C;UAAe,OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,mBAAO,CAAP,I
AAb,C;QAA+B,8B;QAA5C,aiBj3nBO,W;QjBk3nBP,kBAAkB,O;QAClB,wD;UACI,cAAc,UAAU,KAAV,EAAiB
,WAAjB,EAA8B,sBAAK,KAAL,EAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;gGAy
BA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAcI,IA5vYO,qBAAQ,CA4vYf,C;UAAe,OAAO,W;QACtB,sBAAAqB,
UAAK,CAAL,CAArB,C;QACgC,kBAAAnB,eAAa,gBAAAb,C;QAA2B,sBAAAI,aAAJ,C;QAAAxC,aiB14nBO,W;Q
jB24nBP,iBAAAc,CAAAd,UAAsB,gBAAAtB,U;UACI,gBAAAc,UAAU,aAAAV,EAAuB,UAAK,KAAL,CAAvB,C
;UACd,MAAO,WAAI,aAAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;gGAyBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;Q
AWI,IAzwYO,qBAAQ,CAywYf,C;UAAe,OAAO,W;QACtB,sBAAAkB,UAAK,CAAL,CAArB,C;QAC+B,kBAAAnB
,eAAa,gBAAAb,C;QAA+B,sBAAAI,aAAJ,C;QAAAxC,aiB/5nBO,W;QjBg6nBP,iBAAAc,CAAAd,UAAsB,gBAAAtB
,U;UACI,gBAAAc,UAAU,aAAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAAJ,C;;QAEX,OA
AO,M;O;KAtBX,C;gGAyBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAnyYO,qBAAQ,CAnyYf,C;UAAe,OA
AO,W;QACtB,sBAAAkB,UAAK,CAAL,CAArB,C;QACkC,kBAAAnB,eAAa,gBAAAb,C;QAA6B,sBAAAI,aAAJ,C;Q
AAAxC,aiBz8nBO,W;QjB08nBP,iBAAAc,CAAAd,UAAsB,gBAAAtB,U;UACI,gBAAAc,UAAU,aAAAV,EAAuB,U
AAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;gGAyBA,yB;MAAA,qD;
MAAA,gE;MAAA,uC;QAWI,IAhzYO,qBAAQ,CAhzYf,C;UAAe,OAAO,W;QACtB,sBAAAkB,UAAK,CAAL,CAA
rB,C;QAC+B,kBAAAnB,eAAa,gBAAAb,C;QAA6B,sBAAAI,aAAJ,C;QAAAxC,aiBn/nBO,W;QjBo/nBP,iBAAAc,CAA
Ad,UAAsB,gBAAAtB,U;UACI,gBAAAc,UAAU,aAAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI
,aAAAJ,C;;QAEX,O

AAO,M;O;KAlBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IA10YO,qBAAQ,CA00Yf,C;UAAe,
OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACqC,kBAAxB,eAAkB,gBAAlB,C;QAAgC,sBAAI,aAAJ,
C;QAA7C,aiBxgoBO,W;QjBygoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAA
K,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAlBX,C;kGAqBA,yB;MAAA,qD;MAA
A,gE;MAAA,uC;QAWI,IAv1YO,qBAAQ,CAu1Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C
;QACsC,kBAAzB,eAAmB,gBAAnB,C;QAAiC,sBAAI,aAAJ,C;QAA9C,aiB7hoBO,W;QjB8hoBP,iBAAc,CAAd,U
AAsB,gBAAtB,U;UACI,gBAAc,UAAU,aAAV,EAAuB,UAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;
QAEX,OAAO,M;O;KAlBX,C;kGAqBA,yB;MAAA,qD;MAAA,gE;MAAA,oC;MAAA,gC;MAAA,uC;QAWI,IAp
2YO,qBAAQ,CAo2Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,g
BAAhB,C;QAA8B,sBAAI,0BAAJ,C;QAA3C,aiBljoBO,W;QjBmjoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,g
BAAc,oBAAU,0BAAV,EAAuB,sBAAK,KAAL,EAAvB,E;UACd,MAAO,WAAI,0BAAJ,C;;QAEX,OAAO,M;O;
KAlBX,C;8GAqBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAWI,IAcI,IA57YO,qBAAQ,CA47Yf,C;UAAe,OAAO,W;Q
ACtB,sBAAqB,UAAK,CAAL,CAArB,C;QACgC,kBAAnB,eAAa,gBAAb,C;QAA2B,sBAAI,aAAJ,C;QAAxC,aiB
1koBO,W;QjB2koBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UA
AK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KArBX,C;gHAwBA,yB;MAAA,qD;M
AAA,gE;MAAA,uC;QAYI,IA18YO,qBAAQ,CA08Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAl
B,C;QACmC,kBAAtB,eAAgB,gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBhmoBO,W;QjBimoBP,iBAAc,CA
Ad,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,M
AAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAx9
YO,qBAAQ,CAw9Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,gB
AAjB,C;QAA+B,sBAAI,aAAJ,C;QAA5C,aiBtnoBO,W;QjBunoBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBA
Ac,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAA
O,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAt+YO,qBAAQ,CAs+Yf,C;UAAe,OA
AO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACkC,kBAArB,eAAe,gBAAf,C;QAA6B,sBAAI,aAAJ,C;QA
A1C,aiB5ooBO,W;QjB6ooBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EA
A8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAA
A,qD;MAAA,gE;MAAA,uC;QAYI,IAp/YO,qBAAQ,CAo/Yf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,
CAAlB,C;QACmC,kBAAtB,eAAgB,gBAAhB,C;QAA8B,sBAAI,aAAJ,C;QAA3C,aiBlqoBO,W;QjBmqoBP,iBAA
c,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UAC
d,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,I
AlgZO,qBAAQ,CAkgZf,C;UAAe,OAAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,
gBAAjB,C;QAA+B,sBAAI,aAAJ,C;QAA5C,aiBxroBO,W;QjByroBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gB
AAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OA
AO,M;O;KAnBX,C;gHAsBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAYI,IAhhZO,qBAAQ,CAghZf,C;UAAe,O
AAO,W;QACtB,sBAAkB,UAAK,CAAL,CAAlB,C;QACqC,kBAAxB,eAAkB,gBAAlB,C;QAAgC,sBAAI,aAAJ,C
;QAA7C,aiB9soBO,W;QjB+soBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB
,EAA8B,UAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;gHAsBA,yB;MA
AA,qD;MAAA,gE;MAAA,oC;MAAA,gC;MAAA,uC;QAYI,IA5iZO,qBAAQ,CA4iZf,C;UAAe,OAAO,W;QACtB,s
BAAkB,UAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,gBAAhB,C;QAA8B,sBAAI,0BAAJ,C;QAA3C,aiB1voB
O,W;QjB2voBP,iBAAc,CAAd,UAAsB,gBAAtB,U;UACI,gBAAc,oBAAU,KAAV,EAAiB,0BAAjB,EAA8B,sBAA
K,KAAL,EAA9B,E;UACd,MAAO,WAAI,0BAAJ,C;;QAEX,OAAO,M;O;KAnBX,C;8EAsBA,yB;MA/zBA,gD;MA
AAA,gE;MA+zBA,gD;QAcW,sB;;UA7zBS,Q;UAHhB,IAp0XO,qBAAQ,CAo0Xf,C;YAAe,qBAAO,OAAg0BH,OAh0
BG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA+zBzBzB,S;Q;UAHhB,IAp0XO,qBAA
Q,CAo0Xf,C;YAAP,uB;;UACqB,kBAA8zBmBA8zBmB,O;O;UA7zBnB,iD;YAAgB,cA4zBwB,SA5zBV,CAAU,WAAV,E
AAuB,OAAvB,C;YACd,YACd,

MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAyzBP,yB;O;KAdJ,C;gFAiBA,yB;MAzzBA,gD;MAAA,gE;MAyz
BA,gD;QAeW,sB;;UAvzBS,Q;UAHhB,IAp1XO,qBAAQ,CAo1Xf,C;YAAe,qBAAO,OA0zBH,OA1zBG,C;YAAP,
uB;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAyzBzB,OAzzByB,C;UAA5C,aiBz+mBO,W;Uj
B0+mBP,kBAwzBmB,O;UAvzBnB,iD;YAAgB,cAAhB,e;YACI,cAszBwB,SAtzBV,CAAU,WAAV,EAAuB,OAA
vB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAmzBP,yB;O;KAfJ,C;gFAkBA,yB;MAnzBA,gD;MA
AA,gE;MAmzBA,gD;QAeW,sB;;UAjzBS,Q;UAHhB,IAp2XO,qBAAQ,CAo2Xf,C;YAAe,qBAAO,OAozBH,OAp
zBG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAmzBzB,OAnzByB,C;UAA5C,ai
BjgnBO,W;UjBkgnBP,kBAkzBmB,O;UAjzBnB,iD;YAAgB,cAAhB,e;YACI,cAgzBwB,SAhzBV,CAAU,WAAV,
EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA6yBP,yB;O;KAfJ,C;gFAkBA,yB;MA
7yBA,gD;MAAA,gE;MA6yBA,gD;QAeW,sB;;UA3yBS,Q;UAHhB,IAp3XO,qBAAQ,CAo3Xf,C;YAAe,qBAAO,
OA8yBH,OA9yBG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA6yBzB,OA7yBy
B,C;UAA5C,aiBzhnBO,W;UjB0hnBP,kBA4yBmB,O;UA3yBnB,iD;YAAgB,cAAhB,e;YACI,cA0yBwB,SA1yBV,
CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAuyBP,yB;O;KAfJ,C;g
FAkBA,yB;MAvyBA,gD;MAAA,gE;MAuyBA,gD;QAeW,sB;;UAryBS,Q;UAHhB,IAp4XO,qBAAQ,CAo4Xf,C;Y
AAe,qBAAO,OAwyBH,OAxyBG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAuy
BzB,OAvyByB,C;UAA5C,aiBjjnBO,W;UjBkjnBP,kBAsyBmB,O;UAryBnB,iD;YAAgB,cAAhB,e;YACI,cAoyBw
B,SApyBV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAiyBP,yB;
O;KAfJ,C;gFAkBA,yB;MAjyBA,gD;MAAA,gE;MAiyBA,gD;QAeW,sB;;UA/xBS,Q;UAHhB,IAp5XO,qBAAQ,C
Ao5Xf,C;YAAe,qBAAO,OAkyBH,OAlyBG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA
+B,sBAiyBzB,OAjyByB,C;UAA5C,aiBzknBO,W;UjB0knBP,kBAgyBmB,O;UA/xBnB,iD;YAAgB,cAAhB,e;YAC
I,cA8xBwB,SA9xBV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QA
2xBP,yB;O;KAfJ,C;gFAkBA,yB;MA3xBA,gD;MAAA,gE;MA2xBA,gD;QAeW,sB;;UAzxBS,Q;UAHhB,IAp6XO,
qBAAQ,CAo6Xf,C;YAAe,qBAAO,OA4xBH,OA5xBG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IA
Ab,C;UAA+B,sBA2xBzB,OA3xByB,C;UAA5C,aiBjmnBO,W;UjBkmnBP,kBA0xBmB,O;UAzxBnB,iD;YAAgB,c
AAhB,e;YACI,cAwxBwB,SAxxBV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,q
BAAO,M;;;QAqxBP,yB;O;KAfJ,C;gFAkBA,yB;MArxBA,gD;MAAA,gE;MAqxBA,gD;QAeW,sB;;UAnxBS,Q;U
AHhB,IAp7XO,qBAAQ,CAo7Xf,C;YAAe,qBAAO,OAsxBH,OAtxBG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,mB
AAO,CAAP,IAAb,C;UAA+B,sBAqxBzB,OArxByB,C;UAA5C,aiBznnBO,W;UjB0nnBP,kBAoxBmB,O;UAnxBn
B,iD;YAAgB,cAAhB,e;YACI,cAkxBwB,SAlxBV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAA
J,C;;UAEX,qBAAO,M;;;QA+wBP,yB;O;KAfJ,C;gFAkBA,yB;MA/wBA,gD;MAAA,gE;MAAA,oC;MAAA,gC;M
A+wBA,gD;QAeW,sB;;UA7wBS,Q;UAHhB,IAp8XO,qBAAQ,CAo8Xf,C;YAAe,qBAAO,OAgxBH,OAhxBG,C;
YAAP,uB;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA+wBzB,OA/wByB,C;UAA5C,aiBjpnB
O,W;UjBkpnBP,kBA8wBmB,O;UA7wBnB,iD;YAAgB,cAAhB,0B;YACI,cA4wBwB,SA5wBV,CAAU,WAAV,E
AAuB,oBAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAywBP,yB;O;KAfJ,C;4FAkBA,yB;MA
zwBA,gD;MAAA,gE;MAywBA,gD;QAeW,6B;;UA1wBS,IA5hYO,qBAAQ,CA4hYf,C;YAAe,4BAAO,OA0wB
I,OA1wBJ,C;YAAP,8B;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAywBBlB,OAzwBkB,C;U
AA5C,aiBzqnBO,W;UjB0qnBP,kBAwwB0B,O;UAvwBB1B,wD;YACI,cAswBB+B,SAtwBT+B,C;YAAU,KAAV,
EAAiB,W;WAAjB,EAAA8B,UAAAK,KAAAL,CAAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;
;QAmwBP,gC;O;KAfJ,C;8FAkBA,yB;MAnwBA,gD;MAAA,gE;MAmwBA,gD;QAeW,6B;;UApwBS,IA7iYO,qB
AAQ,CA6iYf,C;YAAe,4BAAO,OAowBI,OApwBJ,C;YAAP,8B;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAA
b,C;UAA+B,sBAmwBBlB,OAnwBkB,C;UAA5C,aiBlsnBO,W;UjBmsnBP,kBAkwB0B,O;UAjwBB1B,wD;YACI,
cAgwBB+B,SAhwBT+B,C;YAAU,KAAV,EAAiB,W;WAAjB,EAAA8B,UAAAK,KAAAL,CAAA9B,C;YACd,MA
AO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QA6vBP,gC;O;KAfJ,C;8FAkBA,yB;MA7vBA,gD;MAAA,gE;MA6vB
A,gD;QAeW,6B;;UA9vBS,IA9jYO,qBAAQ,CA9jYf,C;YAAe,4BAAO,OA8vBI,OA9vBJ,C;YAAP,8B;;UACqB
,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA6vBBlB,OA7vBkB,C;UAA5C,aiB3tnBO,W;UjB4tnBP,kB
A4vB0B,O;UA3vBB1B,wD;YACI,cA0vBB+B,SA1vBT+B,C;YAAU,KAAV,EAAiB,W;WAAjB,EAAA8B,UAAAK,
KAAAL,CAAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;U
AEX,4BAAO,M;;;QAuvBP,gC;O;KAfJ,C;8FAkBA,yB;MAvvBA,gD;MAAA,gE;MAuvBA,gD;QAeW,6B;;U
AxvBS,IA/kYO,qBAAQ,CA+kYf,C;YAAe,4BAAO,OAwvBI,OAxvBJ,C;YAAP,8B;;UACqB,kBAAvB,eAAa,m
B

AAO,CAAP,IAAb,C;UAA+B,sBAuvBlB,OAvvBkB,C;UAA5C,aiBpvnBO,W;UjBqvnBP,kBAsvB0B,O;UArvB1B,
wD;YACI,cAovB+B,SApvBjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;YACd,MAAO,
WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAivBP,gC;O;KAhBJ,C;8FAmBA,yB;MAjvBA,gD;MAAA,gE;MAivBA,g
D;QAgBW,6B;;UAlvBP,IAhmYO,qBAAQ,CAgmYf,C;YAAe,4BAAO,OAkvBI,OAlvBJ,C;YAAP,8B;;UACqB,kB
AAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAivBlB,OAjvBkB,C;UAA5C,aiB7wnBO,W;UjB8wnBP,kBAgv
B0B,O;UA/uB1B,wD;YACI,cA8uB+B,SA9uBjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,
C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QA2uBP,gC;O;KAhBJ,C;8FAmBA,yB;MA3uBA,gD;MA
AA,gE;MA2uBA,gD;QAgBW,6B;;UA5uBP,IAjnYO,qBAAQ,CAinYf,C;YAAe,4BAAO,OA4uBI,OA5uBJ,C;YA
AP,8B;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA2uBlB,OA3uBkB,C;UAA5C,aiBtynBO,W;
UjBuynBP,kBA0uB0B,O;UAzuB1B,wD;YACI,cAwuB+B,SAxuBjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,UA
AK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAquBP,gC;O;KAhBJ,C;8FAmBA,y
B;MAruBA,gD;MAAA,gE;MAquBA,gD;QAgBW,6B;;UAtuBP,IAloYO,qBAAQ,CAkoYf,C;YAAe,4BAAO,OAsu
BI,OAtuBJ,C;YAAP,8B;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBAquBlB,OAruBkB,C;UAA
5C,aiB/znBO,W;UjBg0nBP,kBAouB0B,O;UAnuB1B,wD;YACI,cAkuB+B,SAluBjB,CAAU,KAAV,EAAiB,WAA
jB,EAA8B,UAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QA+tBP,gC;O;KAhBJ,
C;8FAmBA,yB;MA/tBA,gD;MAAA,gE;MA+tBA,gD;QAgBW,6B;;UAhuBP,IAnpYO,qBAAQ,CAnpYf,C;YAAe,
4BAAO,OAguBI,OAhuBJ,C;YAAP,8B;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,C;UAA+B,sBA+tBlB,OA
/tBkB,C;UAA5C,aiBx1nBO,W;UjBy1nBP,kBA8tB0B,O;UA7tB1B,wD;YACI,cA4tB+B,SA5tBjB,CAAU,KAAV,
EAAiB,WAAjB,EAA8B,UAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAytBP,
gC;O;KAhBJ,C;8FAmBA,yB;MAztBA,gD;MAAA,gE;MAAA,oC;MAytBA,gD;QAgBW,6B;;UA1tBP,IApqYO,q
BAAQ,CAoqYf,C;YAAe,4BAAO,OA0tBI,OA1tBJ,C;YAAP,8B;;UACqB,kBAAvB,eAAa,mBAAO,CAAP,IAAb,
C;UAA+B,sBAytBlB,OAztBkB,C;UAA5C,aiBj3nBO,W;UjBk3nBP,kBAwtB0B,O;UAvtB1B,wD;YACI,cAstB+B,
SAttBjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,EAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAE
X,4BAAO,M;;;QAmtBP,gC;O;KAhBJ,C;gFAmBA,+B;MAOoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB
;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;MAOoB,Q;MA
DhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAE
J,OAAO,G;K;kFAGX,+B;MAOoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q
ACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;MAOoB,Q;MADhB,UAAe,C;MACf,wBAAgB
,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;M
AOoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,C
AAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;MAOoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,
SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;MAOoB,Q;MADhB,UAAe,C;M
ACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kF
AGX,yB;MAAA,oC;MAAA,gC;MAAA,sC;QAOoB,Q;QADhB,UAAe,C;QACf,wBAAgB,SAAhB,gB;UAAgB,cA
AhB,UAAgB,SAAhB,O;UACI,YAAO,SAAS,oBAAT,CAAP,I;;QAEJ,OAAO,G;O;KAVX,C;4FAaA,+B;MAOo
B,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;
MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAA
hB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MAClB,wBA
AgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MA
OoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,
C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,S
AAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;MAOoB,Q;MADhB,UAAkB,G;MAClB,
wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,+B;
MAOoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OA
AT,C;;MAEX,OAAO,G;K;8FAGX,yB;MAAA,oC;MAAA,gC;MAAA,sC;QAOoB,Q;QADhB,UAAkB,G;QAClB,
wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,OAAO,SAAS,oBAAT,C;;QAEX,OAAO,G;O;
KAVX,C;4FAaA,+B;MAOoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q
ACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;8FAGX,yB;MAAA,oC;MAAA,gC;MAAA,sC;QAOoB,Q;QAD
hB,UAAkB,G;QAClB,wBAAgB,SAAhB,gB;UAAgB,cAhB;UAAgB,SAhB;O;UA

AgB,cAAhB,UAAgB,SAAhB,O;UACI,OAAO,SAAS,oBAAT,C;;QAEX,OAAO,G;O;KAVX,C;gFAaA,+B;MAUo
B,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;
;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,S
AAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB
,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;
MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,O
AAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,c
AAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;
MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kF
AGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,
SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAUoB,Q;MADhB,UAAoB,C;MACpB,wBAAgB,SAAhB,gB;
QAAgB,cAAA,SAAhB,M;QACI,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,yB;MAAA,oC;MAAA,gC;
MAAA,sC;QAUoB,Q;QADhB,UAAoB,C;QACpB,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UA
CI,OAAO,SAAS,oBAAT,C;;QAEX,OAAO,G;O;KAbX,C;kFAgBA,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBA
AgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;kFAGX,+B;
MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT
,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cA
AA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,
C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;
K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAA
O,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,
gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;
MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;
MAEJ,OAAO,G;K;mFAGX,+B;MAUoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAh
B,M;QACI,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,yB;MAAA,oC;MAAA,gC;MAAA,sC;QA
UoB,Q;QADhB,UAAe,C;QACf,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,YAAO,SAAS,o
BAAT,CAAP,I;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;
QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;
KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAg
B,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SAS
oB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,S
AAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QAD
hB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO
,G;O;KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;
UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAA
A,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,c
AAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,
Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ
,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAA
hB,gB;UAAgB,cAAA,SAAhB,M;UACI,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;
MAAA,SASoB,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,Y;QACA,wBAAgB,SAAhB,gB;UAAg
B,cAAhB,UAAgB,SAAhB,O;UACI,cAAO,SAAS,oBAAT,CAAP,C;;QAEJ,OAAO,G;O;KAbX,C;mFAgBA,yB;M
Gl7pBA,6B;MHk7pBA,sC;QAWoB,Q;QADhB,UGl7pBmC,cHk7pBnB,CGl7pBmB,C;QHm7pBnC,wBAAgB,SA
AhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MGtvqBiD,cHsvqBjD,GGtvqB2D,KAAK,GHsvqBzD,SAAS,OAAT,CG
tvqBoE,KAAX,IAAf,C;;QHwvqBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGn8pBA,6B;MHm8pBA,sC;QAWoB,Q
;QADhB,UGn8pBmC,cHm8pBnB,CGn8pBmB,C;QHo8pBnC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;U
ACI,MGvwqBiD,cHuwqBjD,GGvwqB2D,KAAK,GHuwqBzD,SAAS,OAAT,CGvwqBoE,KAAX,IAAf,C;;QHywq
BrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGp9pBA,6B;MHo9pBA,sC;QAWoB,Q;QADhB,UGp9pBmC,cHo9pBn

B,CGp9pBmB,C;QHq9pBnC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MGxxqBiD,cHwxqBjD,GGx
xqB2D,KAAK,GHwxqBzD,SAAS,OAAT,CGxxqBoE,KAAX,IAAf,C;;QH0xqBrD,OAAO,G;O;KAdX,C;mFAiBA
,yB;MGr+pBA,6B;MHq+pBA,sC;QAWoB,Q;QADhB,UGr+pBmC,cHq+pBnB,CGr+pBmB,C;QHs+pBnC,wBAAg
B,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MGzyqBiD,cHyyqBjD,GGzyqB2D,KAAK,GHyyqBzD,SAAS,OA
AT,CGzyqBoE,KAAX,IAAf,C;;QH2yqBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGt/pBA,6B;MHs/pBA,sC;QAW
oB,Q;QADhB,UGt/pBmC,cHs/pBnB,CGt/pBmB,C;QHu/pBnC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;U
ACI,MG1zqBiD,cH0zqBjD,GG1zqB2D,KAAK,GH0zqBzD,SAAS,OAAT,CG1zqBoE,KAAX,IAAf,C;;QH4zqBrD
,OAAO,G;O;KAdX,C;mFAiBA,yB;MGvgqBA,6B;MHugqBA,sC;QAWoB,Q;QADhB,UGvgqBmC,cHugqBnB,CG
vgqBmB,C;QHwgqBnC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MG30qBiD,cH20qBjD,GG30qB2
D,KAAK,GH20qBzD,SAAS,OAAT,CG30qBoE,KAAX,IAAf,C;;QH60qBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;
MGxhqBA,6B;MHwhqBA,sC;QAWoB,Q;QADhB,UGxhqBmC,cHwhqBnB,CGxhqBmB,C;QHyhqBnC,wBAAgB,
SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MG51qBiD,cH41qBjD,GG51qB2D,KAAK,GH41qBzD,SAAS,OAA
T,CG51qBoE,KAAX,IAAf,C;;QH81qBrD,OAAO,G;O;KAdX,C;mFAiBA,yB;MGziqBA,6B;MHyiqBA,sC;QAWo
B,Q;QADhB,UGziqBmC,cHyiqBnB,CGziqBmB,C;QH0iqBnC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;U
ACI,MG72qBiD,cH62qBjD,GG72qB2D,KAAK,GH62qBzD,SAAS,OAAT,CG72qBoE,KAAX,IAAf,C;;QH+2qBr
D,OAAO,G;O;KAdX,C;mFAiBA,yB;MAAA,oC;MAAA,gC;MG1jqBA,6B;MH0jqBA,sC;QAWoB,Q;QADhB,UG
1jqBmC,cH0jqBnB,CG1jqBmB,C;QH2jqBnC,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,M
G93qBiD,cH83qBjD,GG93qB2D,KAAK,GH83qBzD,SAAS,oBAAT,CG93qBoE,KAAX,IAAf,C;;QHg4qBrD,OA
AO,G;O;KAdX,C;mFAiBA,yB;MmBxkqBA,+B;MnBwkqBA,sC;QAWoB,Q;QADhB,UmBvkqBqC,eAAW,oBnBu
kqB/B,CmBvkqB+B,CAAX,C;QnBwkqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB54qBm
D,enB44qBnD,GmB54qB8D,KAAK,KnB44qB5D,SAAS,OAAT,CmB54qBuE,KAAX,CAAhB,C;;QnB84qBvD,O
AAO,G;O;KAdX,C;mFAiBA,yB;MmBzlqBA,+B;MnBylqBA,sC;QAWoB,Q;QADhB,UmBxlqBqC,eAAW,oBnBw
lqB/B,CmBxlqB+B,CAAX,C;QnBylqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB75qBmD,
enB65qBnD,GmB75qB8D,KAAK,KnB65qB5D,SAAS,OAAT,CmB75qBuE,KAAX,CAAhB,C;;QnB+5qBvD,OA
AO,G;O;KAdX,C;mFAiBA,yB;MmB1mqBA,+B;MnB0mqBA,sC;QAWoB,Q;QADhB,UmBzmqBqC,eAAW,oBn
BymqB/B,CmBzmqB+B,CAAX,C;QnB0mqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB96q
BmD,enB86qBnD,GmB96qB8D,KAAK,KnB86qB5D,SAAS,OAAT,CmB96qBuE,KAAX,CAAhB,C;;QnBg7qBvD
,OAAO,G;O;KAdX,C;kFAiBA,yB;MmB3nqBA,+B;MnB2nqBA,sC;QAWoB,Q;QADhB,UmB1nqBqC,eAAW,oBn
B0nqB/B,CmB1nqB+B,CAAX,C;QnB2nqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmB/7qB
mD,enB+7qBnD,GmB/7qB8D,KAAK,KnB+7qB5D,SAAS,OAAT,CmB/7qBuE,KAAX,CAAhB,C;;QnBi8qBvD,O
AAO,G;O;KAdX,C;mFAiBA,yB;MmB5oqBA,+B;MnB4oqBA,sC;QAWoB,Q;QADhB,UmB3oqBqC,eAAW,oBnB
2oqB/B,CmB3oqB+B,CAAX,C;QnB4oqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBh9qBm
D,enBg9qBnD,GmBh9qB8D,KAAK,KnBg9qB5D,SAAS,OAAT,CmBh9qBuE,KAAX,CAAhB,C;;QnBk9qBvD,O
AAO,G;O;KAdX,C;mFAiBA,yB;MmB7pqBA,+B;MnB6pqBA,sC;QAWoB,Q;QADhB,UmB5pqBqC,eAAW,oBnB
4pqB/B,CmB5pqB+B,CAAX,C;QnB6pqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBj+qBm
D,enBi+qBnD,GmBj+qB8D,KAAK,KnBi+qB5D,SAAS,OAAT,CmBj+qBuE,KAAX,CAAhB,C;;QnBm+qBvD,OA
AO,G;O;KAdX,C;mFAiBA,yB;MmB9qqBA,+B;MnB8qqBA,sC;QAWoB,Q;QADhB,UmB7qqBqC,eAAW,oBnB6
qqB/B,CmB7qqB+B,CAAX,C;QnB8qqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBl/qBmD,
enBk/qBnD,GmBl/qB8D,KAAK,KnBk/qB5D,SAAS,OAAT,CmBl/qBuE,KAAX,CAAhB,C;;QnBo/qBvD,OAAO,
G;O;KAdX,C;kFAiBA,yB;MmB/rqBA,+B;MnB+rqBA,sC;QAWoB,Q;QADhB,UmB9rqBqC,eAAW,oBnB8rqB/B,
CmB9rqB+B,CAAX,C;QnB+rqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,MmBngrBmD,enBmg
rBnD,GmBngrB8D,KAAK,KnBmgrB5D,SAAS,OAAT,CmBngrBuE,KAAX,CAAhB,C;;QnBqgrBvD,OAAO,G;O;
KAdX,C;mFAiBA,yB;MAAA,oC;MAAA,gC;MmBhtqBA,+B;MnBgtqBA,sC;QAWoB,Q;QADhB,UmB/sqBqC,e
AAW,oBnB+sqB/B,CmB/sqB+B,CAAX,C;QnBgtqBrC,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O
;UACI,MmBphrBmD,enBohrBnD,GmBphrB8D,KAAK,KnBohrB5D,SAAS,oBAAT,CmBphrBuE,KAAX,CAAhB,
C;;QnBshrBvD,OAAO,G;O;KAdX,C;IAiBA,mC;MAIoB,UAMT,M;MANP,wBAAgB,SAAhB,gB;QAAgB,cAAA,
SAAhB,M;QACI,IAAI,eAAJ,C;UACI,MAAM,gCAAyB,2BAAwB,SAAxB,MAAzB,C;;;MAId,OAAO,0D;K;wFA
GX,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAh

B,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAA
O,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6
B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAh
B,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,
OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;Q
AFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,O
AAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAA
Y,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,a
AAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAA
M,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0
FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,S
AAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,
MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MA
AA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,S
AAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;Q
AGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB
,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAA
U,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,E
AAY,MAAZ,C;O;KAjBX,C;0FAoBA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QAC
Z,aAAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UACI,IAAI,UAAU,OAAV,CAAJ,C;YACI,K
AAM,WAAI,OAAJ,C;;YAEN,MAAO,WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,
C;0FAoBA,yB;MAAA,+D;MAAA,oC;MAAA,gC;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,a
AAa,gB;QACb,wBAAgB,SAAhB,gB;UAAgB,cAAhB,UAAgB,SAAhB,O;UACI,IAAI,UAAU,oBAAV,CAAJ,C;Y
ACI,KAAM,WAAI,oBAAJ,C;;YAEN,MAAO,WAAI,oBAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;
KAjBX,C;IAoBA,+B;MAkGI,WkB3orBO,MAAO,KlB2orBG,gBkB3orBH,ElBgjrBH,KA2FkB,OkB3orBf,C;MlB4
orBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA9FqB,GA8FP,UAAK,C
AAL,CA9FO,EAAnB,KA8FqB,CAAM,CAAN,CA9FF,CA8FrB,C;;MA9FT,OAgGO,I;K;IA7FX,iC;MAwGI,WkB
3prBO,MAAO,KlB2prBG,gBkB3prBH,ElB0jrBH,KAiGkB,OkB3prBf,C;MlB4prBd,WAAW,iBAAa,IAAb,C;MA
CX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApGqB,GAoGP,UAAK,CAApGO,EAAnB,KAoGqB,CAApG
O,EAAnB,KAoGGqB,CAAN,CAAN,CApGF,CAoGrB,C;;MApGT,OAsGO,I;K;IAnGX,iC;MApGT,OAsGO,I;K;I
AnGX,iC;;MApGT,OAsGO,I;K;IAnGX,iC;MA8GI,WkB3qrBO,MAAO,KlB2qrBG,gBkB3qrBH,ElBokrBH,KAuGkB
,OkB3qrBf,C;MlB4qrBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAl
B,M;QACI,IAAK,WA1GqB,GA0GP,UAAK,CAAL,CA1GO,EAAnB,KA0GqB,CAAM,CAAN,CA1GF,CA0GrB,
C;;MA1GT,OA4GO,I;K;IAzGX,iC;MAoHI,WkB3rrBO,MAAO,KlB2rrBG,gBkB3rrBH,ElB8krBH,KA6GkB,OkB
3rrBf,C;MlB4rrBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAhHqB,GAg
HP,UAAK,CAAL,CAhHO,EAAnB,KAgHqB,CAAM,CAAN,CAhHF,CAgHrB,C;;MAhHT,OAkHO,I;K;IA/GX,iC
;MA0HI,WkB3srBO,MAAO,KlB2srBG,gBkB3srBH,ElBwlrBH,KAmHkB,OkB3srBf,C;MlB4srBd,WAAW,iBAAa
,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAtHqB,GAsHP,UAAK,CAAL,CAtHO,EAAnB,
KAsHqB,CAAM,CAAN,CAtHF,CAsHrB,C;;MAtHT,OAwHO,I;K;IArHX,iC;MAgII,WkB3trBO,MAAO,KlB2trB
G,gBkB3trBH,ElBkmrBH,KAyHkB,OkB3trBf,C;MlB4trBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAk
B,IAAlB,M;QACI,IAAK,WA5HqB,GA4HP,UAAK,CAAL,CA5HO,EAAnB,KA4HqB,CAAM,CAAN,CA5HF,CA
4HrB,C;;MA5HT,OA8HO,I;K;IA3HX,iC;MAsII,WkB3urBO,MAAO,KlB2urBG,gBkB3urBH,ElB4mrBH,KA+Hk
B,OkB3urBf,C;MlB4urBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAllIq
B,GAwIP,UAAK,CAllIO,EAAnB,KAwIqB,CAllIO,EAAnB,KAwIllIF,CAwIrB,C;;MAllIT,OAoIO,I;K;IAjIX,iC;M
A4III,WkB3vrBO,MAAO,KlB2vrBG,gBkB3vrBH,ElBsnrBH,KAqIkB,OkB3vrBf,C;MlB4vrBd,WAAW,iBAAa,IA
Ab,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxIqB,GAwIP,UAAK,CAxIO,EAAnB,KAwIqB,CA
xIF,CAwIrB,C;;MAxIT,OA0IO,I;K;IAvIX,iC;MAkJI,WkB3wrBO,MAAO,KlB2wrBG,gB
kB3wrBH,ElBgorBH,KA2IkB,OkB3wrBf,C;MlB4wrBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,I
AAlB,M;QACI,IAAK,WA9IqB,GA8IP,sBAAK,CAAL,EA9IO,EAAnB,KA8IqB,CAAM,CAAN,CA9IF,CA8IrB,C;

;MA9IT,OAgJO,I;K;8EA7IX,yB;MAAA,gE;MkBzorBA,iB;MlByorBA,8C;QAQI,WkB3orBO,MAAO,KlB2orBG,
gBkB3orBH,ElB2orBS,KAAM,OkB3orBf,C;QlB4orBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IA
AlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAA
O,I;O;KAbX,C;8EAgBA,yB;MAAA,gE;MkBzprBA,iB;MlByprBA,8C;QAQI,WkB3prBO,MAAO,KlB2prBG,gBk
B3prBH,ElB2prBS,KAAM,OkB3prBf,C;QlB4prBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,
M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;
O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBzqrBA,iB;MlByqrBA,8C;QAQI,WkB3qrBO,MAAO,KlB2qrBG,gBkB3q
rBH,ElB2qrBS,KAAM,OkB3qrBf,C;QlB4qrBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;U
ACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;K
AbX,C;8EAgBA,yB;MAAA,gE;MkBzrrBA,iB;MlByrrBA,8C;QAQI,WkB3rrBO,MAAO,KlB2rrBG,gBkB3rrBH,E
lB2rrBS,KAAM,OkB3rrBf,C;QlB4rrBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IA
AK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;
+EAgBA,yB;MAAA,gE;MkBzsrBA,iB;MlBysrBA,8C;QAQI,WkB3srBO,MAAO,KlB2srBG,gBkB3srBH,ElB2srB
S,KAAM,OkB3srBf,C;QlB4srBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,W
AAI,UAAU,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgB
A,yB;MAAA,gE;MkBztrBA,iB;MlBytrBA,8C;QAQI,WkB3trBO,MAAO,KlB2trBG,gBkB3trBH,ElB2trBS,KAAM
,OkB3trBf,C;QlB4trBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAA
U,UAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MA
AA,gE;MkBzurBA,iB;MlByurBA,8C;QAQI,WkB3urBO,MAAO,KlB2urBG,gBkB3urBH,ElB2urBS,KAAM,OkB3
urBf,C;QlB4urBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,U
AAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,
gE;MkBzvrBA,iB;MlByvrBA,8C;QAQI,WkB3vrBO,MAAO,KlB2vrBG,gBkB3vrBH,ElB2vrBS,KAAM,OkB3vrB
f,C;QlB4vrBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAA
K,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;
MAAA,oC;MkBzwrBA,iB;MlBywrBA,8C;QAQI,WkB3wrBO,MAAO,KlB2wrBG,gBkB3wrBH,ElB2wrBS,KAA
M,OkB3wrBf,C;QlB4wrBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,
UAAU,sBAAK,CAAL,EAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;IAgBA,kC;
MAqGoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkBt3rBJ,MAAO,KlBs3rBsB,wBA5FzB,KA4FyB,EAAwB
,EAAxB,CkBt3rBtB,ElBs3rBmD,SkBt3rBnD,ClBs3rBH,C;MACX,QAAQ,C;MACQ,OA9FL,KA8FK,W;MAAhB,
OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhGqB,GAgGP,UAAK
,UAAL,EAAK,kBAAL,SAhGO,EAgGI,OAhGJ,CAgGrB,C;;MAhGT,OAAkGO,I;K;IA/FX,kC;MA6GoB,gB;MAHh
B,gBAAgB,gB;MAChB,WAAW,iBkBx4rBJ,MAAO,KlBw4rBsB,wBApGzB,KAoGyB,EAAwB,EAAxB,CkBx4rB
tB,ElBw4rBmD,SkBx4rBnD,ClBw4rBH,C;MACX,QAAQ,C;MACQ,OAtGL,KAsGK,W;MAAhB,OAAgB,cAAhB,
C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxGqB,GAwGP,UAAK,UAAL,EAAK,k
BAAL,SAxGO,EAwGI,OAxGJ,CAwGrB,C;;MAxGT,OAAkGO,I;K;IAvGX,kC;MAqHoB,gB;MAHhB,gBAAgB,g
B;MAChB,WAAW,iBkB15rBJ,MAAO,KlB05rBsB,wBA5GzB,GA4GyB,EAAwB,EAAxB,CkB15rBtB,ElB05rBm
D,SkB15rBnD,ClB05rBH,C;MACX,QAAQ,C;MACQ,OA9GL,KA8GK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,y
B;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhHqB,GAgHP,UAAK,UAAL,EAAK,kBAAL,SAhH
O,EAgHI,OAhHJ,CAgHrB,C;;MAhHT,OAAkHO,I;K;IA/GX,kC;MA6HoB,gB;MAHhB,gBAAgB,gB;MAChB,W
AAW,iBkB56rBJ,MAAO,KlB46rBsB,wBApHzB,GApHyB,EAAwB,EAAxB,CkB56rBtB,ElB46rBmD,SkB56rBn
D,ClB46rBH,C;MACX,QAAQ,C;MACQ,OAtHL,KAsHK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAA
I,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxHqB,GAwHP,UAAK,UAAL,EAAK,kBAAL,SAxHO,EAwHI,O
AxHJ,CAwHrB,C;;MAxHT,OAAkHO,I;K;IAvHX,kC;MAqIoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkBb
h9rBJ,MAAO,KlBg9rBsB,wBA5HzB,GA4HyB,EAAwB,EAAxB,CkBh9rBtB,ElBg9rBmD,SkBh9rBnD,ClBg9r
BH,C;MACX,QAAQ,C;MACQ,

OAtIL,KAsIK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK
,WAxIqB,GAwIP,UAAK,UAAL,EAAK,kBAAL,SAxIO,EAwII,OAxIJ,CAwIrB,C;;MAxIT,OA0IO,I;K;IAvIX,kC;
MAqJoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,iBkBl+rBJ,MAAO,KlBk+rBsB,wBA5IzB,KA4IyB,EAAwB,
EAAxB,CkBl+rBtB,ElBk+rBmD,SkBl+rBnD,ClBk+rBH,C;MACX,QAAQ,C;MACQ,OA9IL,KA8IK,W;MAAhB,
OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhJqB,GAgJP,UAAK,
UAAL,EAAK,kBAAL,SAhJO,EAgJI,OAhJJ,CAgJrB,C;;MAhJT,OAkJO,I;K;IA/IX,kC;MA6JoB,gB;MAHhB,gBA
AgB,gB;MAChB,WAAW,iBkBp/rBJ,MAAO,KlBo/rBsB,wBApJzB,KAoJyB,EAAwB,EAAxB,CkBp/rBtB,ElBo/r
BmD,SkBp/rBnD,ClBo/rBH,C;MACX,QAAQ,C;MACQ,OAtJL,KAsJK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,y
B;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAxJqB,GAwJP,UAAK,UAAL,EAAK,kBAAL,SAxJ
O,EAwJI,OAxJJ,CAwJrB,C;;MAxJT,OA0JO,I;K;IAvJX,kC;MAqKoB,gB;MAHhB,gBAAgB,gB;MAChB,WAAW,
iBkBtgsBJ,MAAO,KlBsgsBsB,wBA5JzB,KA4JyB,EAAwB,EAAxB,CkBtgsBtB,ElBsgsBmD,SkBtgsBnD,ClBsgsB
H,C;MACX,QAAQ,C;MACQ,OA9JL,KA8JK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SA
AT,C;UAAoB,K;QACpB,IAAK,WAhKqB,GAgKP,sBAAK,UAAL,EAAK,kBAAL,UAhKO,EAgKI,OAhKJ,CAg
KrB,C;;MAhKT,OAkKO,I;K;+EA/JX,yB;MAAA,kF;MAAA,gE;MkBn3rBA,iB;MlBm3rBA,8C;QAWoB,UAEY,
M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBt3rBJ,MAAO,KlBs3rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBt3r
BtB,ElBs3rBmD,SkBt3rBnD,ClBs3rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;U
ACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAq
B,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBr4rBA,iB;MlBq4rBA,8C
;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekBx4rBJ,MAAO,KlBw4rBsB,wBAAN,KAAM,EAAwB
,EAAxB,CkBx4rBtB,ElBw4rBmD,SkBx4rBnD,ClBw4rBH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cA
AhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,
kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MkBv5
rBA,iB;MlBu5rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB15rBJ,MAAO,KlB05rBsB,
wBAAN,KAAM,EAAwB,EAAxB,CkB15rBtB,ElB05rBmD,SkB15rBnD,ClB05rBH,C;QACX,QAAQ,C;QACQ,u
B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU
,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkBA,yB;MAAA,
kF;MAAA,gE;MkBz6rBA,iB;MlBy6rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB56rBJ,
MAAO,KlB46rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB56rBtB,ElB46rBmD,SkB56rBnD,ClB46rBH,C;QAC
X,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,I
AAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;+EAkBA,yB;MAAA,kF;MA
AA,gE;MkB37rBA,iB;MlB27rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW,ekB97rBJ,MAAO,
KlB87rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkB97rBtB,ElB87rBmD,SkB97rBnD,ClB87rBH,C;QACX,QAAQ
,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,W
AAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;+EAkB
A,yB;MAAA,kF;MAAA,gE;MkB78rBA,iB;MlB68rBA,8C;QAWoB,UAEY,M;QAL5B,gBAAgB,gB;QAChB,WAAW
,ekBh9rBJ,MAAO,KlBg9rBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBh9rBtB,ElBg9rBmD,SkBh9rBnD,ClBg9rB
H,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K
;UACpB,IAAK,WAAI,UAAU,UAAK,UAAL,EAAK,kBAAL,SAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;
KAfX,C;+EAkBA,yB;MAAA,kF;MAAA,gE;MAAA,oC;MkBngsBA,iB;MlBmgsBA,8C;QAWoB,UAEY,M;QAL5
B,gBAAgB,gB;QAChB,WAAW,ekBtgsBJ,M

AAO,KlBsgsBsB,wBAAN,KAAM,EAAwB,EAAxB,CkBtgsBtB,ElBsgsBmD,SkBtgsBnD,ClBsgsBH,C;QACX,QA
AQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,
WAAI,UAAU,sBAAK,UAAL,EAAK,kBAAL,UAAV,EAAqB,OAArB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;IAkB
A,kC;MAwFI,WkBvmsBO,MAAO,KlBumsBG,gBkBvmsBH,ElBshsBH,KAiFkB,OkBvmsBf,C;MlBwmsBd,WAA
W,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WApFqB,GAoFP,UAAK,CAAL,CApF
O,EAAnB,KAoFqB,CAAM,CAAN,CApFF,CAoFrB,C;;MApFT,OAsFO,I;K;IAnFX,kC;MA8FI,WkBvnsBO,MAA
O,KlBunsBG,gBkBvnsBH,ElBgisBH,KAuFkB,OkBvnsBf,C;MlBwnsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,C
AAV,MAAkB,IAAlB,M;QACI,IAAK,WA1FqB,GA0FP,UAAK,CAAL,CA1FO,EAAnB,KA0FqB,CAAM,CAAN,
CA1FF,CA0FrB,C;;MA1FT,OA4FO,I;K;IAzFX,kC;MAoGI,WkBvosBO,MAAO,KlBuosBG,gBkBvosBH,ElB0isB
H,KA6FkB,OkBvosBf,C;MlBwosBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IA
AK,WAhGqB,GAgGP,UAAK,CAAL,CAhGO,EAAnB,KAgGqB,CAAM,CAAN,CAhGF,CAgGrB,C;;MAhGT,OA
kGO,I;K;IA/FX,kC;MA0GI,WkBvpsBO,MAAO,KlBupsBG,gBkBvpsBH,ElBojsBH,KAmGkB,OkBvpsBf,C;MlBw
psBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAtGqB,GAsGP,UAAK,C
AAL,CAtGO,EAAnB,KAsGqB,CAAM,CAAN,CAtGF,CAsGrB,C;;MAtGT,OAwGO,I;K;IArGX,kC;MAgHI,WkB
vqsBO,MAAO,KlBuqsBG,gBkBvqsBH,ElB8jsBH,KAyGkB,OkBvqsBf,C;MlBwqsBd,WAAW,iBAAa,IAAb,C;M
ACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5GqB,GA4GP,UAAK,CAAL,CA5GO,EAAnB,KA4GqB,
CAAM,CAAN,CA5GF,CA4GrB,C;;MA5GT,OA8GO,I;K;IA3GX,kC;MAsHI,WkBvrsBO,MAAO,KlBursBG,gBk
BvrsBH,ElBwksBH,KA+GkB,OkBvrsBf,C;MlBwrsBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IA
AlB,M;QACI,IAAK,WAlHqB,GAkHP,UAAK,CAAL,CAlHO,EAAnB,KAkHqB,CAAM,CAAN,CAlHF,CAkHrB,
C;;MAlHT,OAoHO,I;K;IAjHX,kC;MA4HI,WkBvssBO,MAAO,KlBussBG,gBkBvssBH,ElBklsBH,KAqHkB,OkB
vssBf,C;MlBwssBd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAxHqB,GA
wHP,UAAK,CAAL,CAxHO,EAAnB,KAwHqB,CAAM,CAAN,CAxHF,CAwHrB,C;;MAxHT,OAxHO,I;K;IAvHX
,kC;MAkII,WkBvtsBO,MAAO,KlButsBG,gBkBvtsBH,ElB4lsBH,KA2HkB,OkBvtsBf,C;MlBwtsBd,WAAW,iBA
Aa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA9HqB,GA8HP,sBAAK,CAAL,EA9HO,EA
8HE,YA9HrB,KA8HqB,CAAM,CAAN,EA9HF,CA8HrB,C;;MA9HT,OAgIO,I;K;+EA7HX,yB;MAAA,gE;MkBr
msBA,iB;MlBqmsBA,8C;QAQI,WkBvmsBO,MAAO,KlBumsBG,gBkBvmsBH,ElBumsBS,KAAM,OkBvmsBf,C;
QlBwmsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,
CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;M
kBrnsBA,iB;MlBqnsBA,8C;QAQI,WkBvnsBO,MAAO,KlBunsBG,gBkBvnsBH,ElBunsBS,KAAM,OkBvnsBf,C;Q
lBwnsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CA
AL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBr
osBA,iB;MlBqosBA,8C;QAQI,WkBvosBO,MAAO,KlBuosBG,gBkBvosBH,ElBuosBS,KAAM,OkBvosBf,C;QlB
wosBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAA
L,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrp
sBA,iB;MlBqpsBA,8C;QAQI,WkBvpsBO,MAAO,KlBupsBG,gBkBvpsBH,ElBupsBS,KAAM,OkBvpsBf,C;QlBwp
sBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,C
AAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrqsBA
,iB;MlBqqsBA,8C;QAQI,WkBvqsBO,MAAO,KlBuqsBG,gBkBvqsBH,ElBuqsBS,KAAM,OkBvqsBf,C;QlBwqsBd
,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAA
V,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrrsBA,iB;
MlBqrsBA,8C;QAQI,WkBvrsBO,MAAO,KlBursBG,gBkBvrsBH,ElBursBS,KAAM,OkBvrsBf,C;QlBwrsBd,WAA
W,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EA
AmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MkBrssBA,iB;MlBq
ssBA,8C;QAQI,WkBvssBO,MAAO,KlBussBG,gBkBvssBH,ElBussBS,KAAM,OkBvssBf,C;QlBwssBd,WAAW,e
AAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,EAAmB
,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MAAA,oC;MkBrtsBA,iB;
MlBqtsBA,8C;QAQI,WkBvtsBO,MAAO,KlButsBG,gBkBvtsBH,ElButsBS,KAAM,OkBvtsBf,C;QlBwtsBd,WAA
W,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,EAAV,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAbX,C;+EAgBA,yB;MAAA,gE;MAAA,oC;MkBrtsBA,iB;MlBqtsBA,8C;QAQI,WkBvtsBO,MAAO,KlButsBG,gBkBvtsBH,ElButsBS,KAAM,OkBvtsBf,C;QlBwtsBd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,UAAK,CAAL,CAAV,sBAAK,CAAL,EAAV,CAAV,CAAL,EAAV,EAAmB,CAAL,CAAV,EAAmB,CAAL,EAAV,CAAV,EAAL,CAAV,EAAmB,CAAV,CAAL,CAAV,EAAAV,EAAmB,CAAL,EAAV,EAAmB

AmB,kBAAM,CAAN,EAAnB,CAAJ,C;:QAET,OAAO,I;O;KAbX,C;IAgBA,4F;MAQ8D,yB;QAAA,YAA0B,I;M
AAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K
;MAAO,yB;QAAA,YAAoC,I;MAGvN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,
SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IA
AI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACW,gBAAP,MAAO,EAAc,OAAd,EAAuB,SAAvB,C;;UACJ,K;;MA
EX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UACI,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAA
P,C;MACP,OAAO,M;K;IAGX,8F;MAQwD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,
UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAGpN,Q;MA
FhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,I
AAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UA
CI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UAC
R,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBA
AO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQyD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,u
B;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAwC,I;MAG
tN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,
M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KA
A1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WA
Af,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,C;MACxC,
MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQuD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAu
B,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YA
AsC,I;MAGlN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAA
A,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,
SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,
OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,
C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQwD,yB;QAAA,YAA0B,I;MAAM,sB;Q
AAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB
;QAAA,YAAuC,I;MAGpN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;
QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,
CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MA
AO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gB
AAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQyD,yB;QAAA,YAA0B,I;M
AAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K
;MAAO,yB;QAAA,YAAwC,I;MAGtN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,
SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IA
AI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;
YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,
MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ0D,yB;QAAA,Y
AA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,
YAA0B,K;MAAO,yB;QAAA,YAAyC,I;MAGxN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,
wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;
QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,
CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;
UAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ2D,yB;
QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,y
B;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MAG1N,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,
C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,
SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAA
U,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,
KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;M
AQ0D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,
E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MAG1N,Q;MAFhB,MAAO,gBAAO,MAAP,C;MA
CP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MA
AO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,
gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,I
Ac,QAAQ,KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;
IAGX,8F;MAQ0D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;
QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAyC,I;MAGxN,Q;MAFhB,MAAO,gBAAO,
MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;
UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YAC
I,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAA
S,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,O
AAO,M;K;IAGX,8F;MAQ2D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;
MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAyC,I;MAGxN,Q;MAFhB,MAAO,
gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,
CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBA
AJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,I
AAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;
MACP,OAAO,M;K;IAGX,8F;MAQ0D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UA
AwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MAG1N,Q;MAFhB,
MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,i
CAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IA
AI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;
MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,
OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ0D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;
QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MAG1N,
Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;Q
ACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,
C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;
UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,
gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ2D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MA
AI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAyC,I;M
AGxN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAh
B,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,K
AA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,W
AAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,C;MACxC,
MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ0D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAu
B,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YA
AyC,I;MAGxN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cA
AA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,
SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,O
AAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gBAAO,SAAP,C;
MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ0D,yB;QAAA,YAA0B,I;MAAM,sB;QA
AA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;
QAAA,YAA0C,I;MAG1N,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,SAAhB,gB;
QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,
CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;YAEP,MA
AO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MAAO,gB
AAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ2D,yB;QAAA,YAA0B,I;M
AAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K
;MAAO,yB;QAAA,YAAyC,I;MAGxN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,wBAAgB,S
AAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IA
AI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,CAAP,C;;Y
AEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;UAAiC,MA
AO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ0D,yB;QAAA,YA
A0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,Y
AA0B,K;MAAO,yB;QAAA,YAAyC,I;MAGxN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACZ,w
BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;Q
ACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,OAAV,C
AAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1B,C;U
AAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ0D,yB;Q
AAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;Q
AAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MAG1N,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MA
CZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SA
AP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,UAAU,
OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KA
A1B,C;UAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;MAQ
0D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;M
AAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MAG1N,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YA
AY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBA
AO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAJ,C;YACI,MAAO,gBAAO,U
AAU,OAAV,CAAP,C;;YAEP,MAAO,gBAAO,OAAQ,WAAf,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,

KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,8F;M
AQwD,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,
E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAGpN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MAC
P,YAAY,C;MACZ,wBAAgB,SAAhB,gB;QAAgB,cAAhB,UAAgB,SAAhB,O;QACI,IAAI,iCAAU,CAAd,C;UAAi
B,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;UACI,IAAI,iBAAAJ,C;YACI,MA
AO,gBAAO,UAAU,oBAAV,CAAP,C;;YAAEP,MAAO,gBAAO,OAAP,C;;UACR,K;;MAEX,IAAI,SAAS,CAAT,IA
Ac,QAAQ,KAA1B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;I
AGX,0F;MAQyC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QA
AA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MAClN,OAAO,kBAAO,sBAAP,EAAwB
,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAG5
F,4F;MAQkC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,
QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAC9M,OAAO,oBAAO,sBAAP,EAAwB,S
AAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAG5F,
4F;MAQmC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,
QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAwC,I;MAChN,OAAO,oBAAO,sBAAP,EAAwB,S
AAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAG5F,
4F;MAQiC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,Q
AAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAsC,I;MAC5M,OAAO,oBAAO,sBAAP,EAAwB,SAA
xB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAG5F,4F;
MAQkC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAA
a,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAuC,I;MAC9M,OAAO,oBAAO,sBAAP,EAAwB,SAAxB
,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAG5F,4F;M
AQmC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,
E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAwC,I;MAChN,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,E
AAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAG5F,4F;MAQ
oC,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;M
AAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAyC,I;MAClN,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAm
C,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAG5F,4F;MAQqC,y
B;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI
,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAA0C,I;MACpN,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC,
MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;IAQxE,4C;MAAA,mB;Q
AAE,OAAK,qBAAL,eAAK,C;O;K;IAL3B,+B;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACtB,kCAAg
B,4BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,C
Aklef,C;QAAe,OAAO,W;MACtB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,0BAAL,eAAK,
C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACtB,kCAAgB,8BAAhB,C;K;IAQgB,8C;M
AAA,mB;QAAE,OAAK,wBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MA
CtB,kCAAgB,8BAAhB,C;K;IAQgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO
,qBAAQ,CAklef,C;QAAe,OAAO,W;MACtB,kCAAgB,8BAAhB,C;K;IAQgB,0BA
AL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAAO,W;MACtB,kCAAgB,8BAAhB,C;K;IA
QgB,8C;MAAA,mB;QAAE,OAAK,2BAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QAAe,OAA
O,W;MACtB,kCAAgB,8BAAhB,C;K;IAQgB,4BAAL,eAAK,C;O;K;IAL3B,iC;MAII,IAlleO,qBAAQ,CAklef,C;QA
Ae,OAAO,W;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,4C;MAAA,mB;QAAE,OAAK,qBAAL,eAAK,C;O;K;IAP3B,
+B;MAMI,IA5peO,qBAAQ,CA4pef,C
;QAAe,OAAO,e;MACtB,kCAAgB,4BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IA

P3B,iC;MAMI,IA9peO,qBAAQ,CA8pef,C;QAAe,OAAO,e;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,m
B;QAAE,OAAK,0BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IAhqeO,qBAAQ,CAgqef,C;QAAe,OAAO,e;MACtB,kC
AAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,wBAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IAlqeO,qBA
AQ,CAkqef,C;QAAe,OAAO,e;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eA
AK,C;O;K;IAP3B,iC;MAMI,IApqeO,qBAAQ,CAoqef,C;QAAe,OAAO,e;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,
8C;MAAA,mB;QAAE,OAAK,0BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IAtqeO,qBAAQ,CAsqef,C;QAAe,OAAO,e
;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,2BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,I
AxqeO,qBAAQ,CAwqef,C;QAAe,OAAO,e;MACtB,kCAAgB,8BAAhB,C;K;IAUgB,8C;MAAA,mB;QAAE,OAA
K,4BAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IA1qeO,qBAAQ,CA0qef,C;QAAe,OAAO,e;MACtB,kCAAgB,8BAAh
B,C;K;IAUgB,8C;MAAA,mB;QAAE,OAAK,yBAAL,eAAK,C;O;K;IAP3B,iC;MAMI,IA5qeO,qBAAQ,CA4qef,C;
QAAe,OAAO,e;MACtB,kCAAgB,8BAAhB,C;K;IAGJ,4B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MA
CjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,G
AAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACj
B,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAA
gB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,
wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAg
B,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,w
BAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,
wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wB
AAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,w
CAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wBAA
gB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCA
AO,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wBAAgB
,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO
,IAAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAMoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACjB,wBAAgB,S
AAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,I
AAvB,GAAgC,MAAM,K;K;IAGjD,8B;MAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAA
S,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MAMoB,Q;MAFhB,UAAkB,G;MAClB,YA
AiB,C;MACjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;QACP,qB;;MAEJ,OAAW,UAAS
,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,wB;MAMoB,Q;MADhB,UAAe,C;MACf,wBAAg
B,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,O;;;MAEX,OAAO,G;K;IAGX,0B;MAMoB,Q;MADhB,UA
Ae,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,O;;;MAEX,OAAO,G;K;IAGX,0B;MA
Cf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,YAAO,OAAP,I;;MAEJ,OAAO,G;K;IAGX,0B;MAMo
B,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,cAAO,OAAP,C;;MAEJ,OAA
O,G;K;IAGX,0B;MAMoB,Q;MADhB,UAAiB,G;MACjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OA
AO,O;;MAEX,OAAO,G;K;IAGX,0B;MAKoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAhB,gB;QAAgB,cAAA,SA
AhB,M;QACI,YAAO,OAAP,I;;MAEJ,OAAO,G;K;IAGX,0B;MAKoB,Q;MADhB,UAAe,C;MACf,wBAAgB,SAAh
B,gB;QAAgB,cAAA,SAAhB,M;QACI,cAAO,OAAP,C;;MAEJ,OAAO,G;K;IAGX,0B;MAMoB,Q;MADhB,UAAiB
,G;MACjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAKoB
,Q;MADhB,UAAkB,G;MAClB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;;;MAEX,OAAO,G
;K;IAGX,0B;MAMoB,Q;MADhB,UAAiB,G;MACjB,wBAAgB,SAAhB,gB;QAAgB,cAA
A,SAAhB,M;QACI,OAAO,O;;;MAEX,OAAO,G;K;IAGX,2B;MAKoB,Q;MADhB,UAAkB,G;MAClB,wBAAgB,S

AAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,OAAO,O;;MAEX,OAAO,G;K;Ia5uuBX,oD;MAQuF,wC;K;IARvF,8C
ASI,Y;MAAuC,8B;K;IAT3C,gF;4FOOA,qB;MAOI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAOI,OAAO,sBAAI,
CAAJ,C;K;4FAGX,qB;MAOI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAOI,OAAO,sBAAI,CAAJ,C;K;4FAGX,q
B;MAOI,OAAO,sBAAI,CAAJ,C;K;IAGX,wC;MAII,IAAI,oCAAJ,C;QACI,OAAO,yBAAS,OAAT,C;MACX,OA
AO,qBAAQ,OAAR,KAAoB,C;K;IAWG,yC;MAAA,qB;QAAE,MAAM,8BAA0B,iDAA8C,aAA9C,MAA1B,C;O;
K;IAR1C,qC;MAMI,IAAI,8BAAJ,C;QACI,OAAO,sBAAI,KAAJ,C;MACX,OAAO,6BAAgB,KAAhB,EAAuB,uB
AAvB,C;K;0FAGX,4B;MAOI,OAAO,sBAAI,KAAJ,C;K;IAGX,2D;MAcqB,Q;MARjB,IAAI,8BAAJ,C;QACI,OA
AsB,KA4Lf,IAAS,CAAT,IA5Le,KA4LD,IAAS,iBA5LvB,SA4LuB,CAA3B,GA5LI,SA4LkC,aA5LnB,KA4LmB,C
AAtC,GA5L0B,YA4L4B,CA5LnC,KA4LmC,C;;MA3L7D,IAAI,QAAQ,CAAZ,C;QACI,OAAO,aAAa,KAAb,C;M
ACX,eAAe,oB;MACf,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,WAAS,Y
AAT,EAAS,oBAAT,OAAJ,C;UACI,OAAO,O;;MAEf,OAAO,aAAa,KAAb,C;K;sGAGX,yB;MAAA,8D;MAAA,i
D;QAOI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;K
APjE,C;IAUA,6C;MACqB,Q;MARjB,IAAI,8BAAJ,C;QACI,OAAY,YAAL,SAAK,EAAU,KAAV,C;MAChB,IAA
I,QAAQ,CAAZ,C;QACI,OAAO,I;MACX,eAAe,oB;MACf,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,cAA
c,QAAS,O;QACvB,IAAI,WAAS,YAAT,EAAS,oBAAT,OAAJ,C;UACI,OAAO,O;;MAEf,OAAO,I;K;sGAGX,yB;
MAAA,sD;MAAA,mC;QAOI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;gFAUA,gC;MAOW,sB;;QAu
HS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAvHH,SAuHO,CAAU,OAAV,CAAJ,C;YAAw
B,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;;MAxHP,yB;K;;wFAGJ,gC;MA2VoB,Q;MADhB,WAAe,I;MACC,2B
;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IArVc,SAqVV,CAAU,OAAV,CAAJ,C;UACI,OAAO,O;;;MAtVf,
OAAyVO,I;K;wFAtVX,gC;MAOW,qB;;QAwVP,eAAoB,+BAAa,cAAb,C;QACpB,OAAO,QAAS,cAAhB,C;UACI,
cAAc,QAAS,W;UACvB,IA3Vc,SA2VV,CAAU,OAAV,CAAJ,C;YAAwB,oBAAO,O;YAAP,sB;;;QAE5B,oBAAO
,I;;;;MA7VP,wB;K;;IAGJ,6B;MAMQ,kBADE,SACF,Q;QAAW,OAAY,SAAL,SAAK,C;;QAEnB,eAAe,oB;QACf,I
AAI,CAAC,QAAS,UAAd,C;UACI,MAAM,2BAAuB,sBAAvB,C;QACV,OAAO,QAAS,O;;K;IAK5B,6B;MAKI,I
AAI,mBAAJ,C;QACI,MAAM,2BAAuB,gBAAvB,C;MACV,OAAO,sBAAK,CAAL,C;K;mFAGX,yB;MAAA,iE;
MAAA,uC;MAKoB,Q;MAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;Y
AAwB,OAAO,O;;MACrD,MAAM,gCAAuB,wDAAvB,C;O;KANV,C;oGASA,yB;MAAA,iE;MAAA,uC;MAKoB,
Q;MAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;M
ACrD,MAAM,gCAAuB,wDAAvB,C;O;KANV,C;oGASA,yB;MAAA,+B;;UAAS,U;UAAA,6B;YAAA,+B;cAAA,
CAAuB,mEAAvB,C;aAAA,iC;OAAT,gC;;;UAGA,8BAAO,M;cAAP,gC;;;;;;;;UAGR,8BAAO,I;;;;QAlBA,kC;QAAA
,iB;UAAmC,MAAM,g
CAAuB,mEAAvB,C;;QAAAhD,OAAO,I;O;KATX,C;gHAYA,yB;MAAAA,kC;MAAA,iB;QAMI,OAAO,qBAAT,
C;QAAAgB,yB;QACI,MAAM,gCAAuB,KATX,C;QAAAb,yB;;UAGA,8BAAO,I;cAAP,gC;;;;;;;;;;UAGR,8BAAO,
M;;;;MAlBA,uC;K;;IAGJ,6B;MAKI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,gBAAvB,C;MACV,OAAO,sBAAK,
wBAAL,C;K;mFAGX,yB;MAAA,iE;MAAA,uC;MAKoB,Q;MAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UA
AM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;MACrD,MAAM,gCAAuB,wDAAvB,C;O;KANV,C;oGASA,
yB;MAAA,iE;MAAA,uC;MAKoB,Q;MAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,
CAAJ,C;YAAwB,OAAO,O;;MACrD,MAAM,gCAAuB,wDAAvB,C;O;KANV,C;oGASA,yB;MAAA,iE;MAAA,uC;
MAKoB,Q;MAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO
,O;;MACrD,MAAM,gCAAuB,wDAAvB,C;O;KANV,C;oGASA,yB;MAAA,+B;MAAA,iE;MAAA,sBAAa,cAAb,C
;MACpB,OAAO,QAAS,cAAhB,C;QACI,IAAI,UAAU,QAAS,WAAnB,CAAJ,C;UACI,OAAO,QAAS,Y;;;MAG
xB,OAAO,E;K;IAGX,4B;MASQ,kBADE,SACF,Q;QAAW,OAAY,QAAL,SAAK,C;;QAEnB,eAAe,oB;QACf,IAA
I,CAAC,QAAS,UAAd,C;UACI,MAAM,2BAAuB,sBAAvB,C;QACV,WAAW,QAAS,O;QACpB,OAAO,QAAS,U

AAhB,C;UACI,OAAO,QAAS,O;QACpB,OAAO,I;;K;IAKnB,4B;MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,
gBAAvB,C;MACV,OAAO,sBAAK,2BAAL,C;K;iFAGX,yB;MAAA,iE;MAAA,gB;MAAA,8B;MAAA,uC;QAUo
B,UAQT,M;QAVP,WAAe,I;QACf,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAA
U,OAAV,CAAJ,C;YACI,OAAO,O;YACP,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,w
DAAvB,C;QAElB,OAAO,2E;O;KAlBX,C;iFAqBA,yB;MAAA,iE;MAAA,uC;QAQI,eAAe,SAAK,sBAAa,cAAb,C
;QACpB,OAAO,QAAS,cAAhB,C;UACI,cAAc,QAAS,W;UACvB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,
O;;QAEnC,MAAM,gCAAuB,kDAAvB,C;O;KAbV,C;IAgBA,2C;MAOiB,Q;MAHb,IAAI,8BAAJ,C;QAAkB,OAA
O,SAAK,mBAAY,OAAZ,C;MAC9B,gBAAAgB,E;MAChB,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;UAAa,sB;
QACT,mBAAmB,KAAnB,C;QACA,IAAI,gBAAAW,IAAX,CAAJ,C;UACI,YAAY,K;QAChB,qB;;MAEJ,OAAO,S;K;
IAGX,2C;MAKI,OAAO,4BAAY,OAAZ,C;K;IAGX,kC;MAOQ,kBADE,SACF,Q;QAAW,OAAW,mBAAJ,GA
Ae,IAAf,GAAyB,sBAAK,iBAAO,CAAP,IAAL,C;;QAEvC,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAACI,
OAAO,I;QACX,WAAW,QAAS,O;QACpB,OAAO,QAAS,UAAhB,C;UACI,cAAc,QAAS,O;UACpB,IAAI,UAAAhB,
;IAKnB,kC;MAMI,OAAW,mBAAAJ,GAAe,IAAf,GAAyB,sBAAK,6FAGpC,gC;MAOo
B,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;U
ACI,OAAO,O;;;MAGf,OAAO,I;K;6FAGX,gC;MAMI,eAAe,SAAK,sBAAa,cAAb,C;MACpB,OAAO,QAAS,cAA
hB,C;QACI,cAAc,QAAS,W;QACvB,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MAEnC,OAAO,I;K;qFA
GX,yB;MAAA,mC;MAAA,gD;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;IAUA,4C;MAMI,eAAe,o
BAAAJ,C;MACI,MAAM,2BAAuB,sBAAAvB,C;MACV,OAAO,qBAAU,MAAO,iBAAQ,cAAR,CAAjB,C;K;K;iGAGX
,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,4C;MAMI,IAAI,mBAA
J,C;QACI,OAAO,I;MACX,OAAO,qBAAU,MAAO,iBAAQ,cAAR,CAAjB,C;K;K;IAGX,8B;MAKQ,kBADE,SACF,
Q;QAAW,OAAY,UAAL,SAAK,C;;QAAEnB,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAACI,OAAO,I;QA
B,sBAAvB,C;QACV,aAAAa,QAAS,O;QACtB,IAAI,QAAS,UAAb,C;UAACI,OAAO,I;QACX,cAAc,QAAS,O;MA
CX,C;UAAK,6BAAAK,C;UAAAL,K;;K;IAKnB,8B;MAIiB,Q;MAAAM,cAAc,oBAAAa,QAAS,Q;MAA4B,OAAL,c
;aACH,C;UAAAK,MAAM,2BAAuB,gBAAAvB,C;;aACX,C;UAAAK,6BAAAK,C;UAAL,K;;K;;UACQ,MAAM,gCAAu
B,iCAAAzB,C;;K;;MAHlB,W;K;qFAOJ,yB;MAAAK,kF;MAAAK,iE;MAAA,gB;MAAA,8B;MAAA,uC;QAMoB,U
AST,M;QAXP,aAAAiB,I;QACjB,YAAY,K;QACI,2B;QAAhB,OAAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,O
AAV,CAAJ,C;YACI,OAAO,O;YACP,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,wDAA
vB,C;QAElB,OAAO,6E;O;KAlBX,C;iFAqBA,yB;MAAA,iE;MAAA,uC;QAQI,eAAe,SAAK,sBAAa,cAAb,C;QACp
B,OAAO,QAAS,cAAhB,C;UACI,cAAc,QAAS,W;UACvB,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;Q
AEnC,MAAM,gCAAuB,kDAAvB,C;O;KAbV,C;IAgBA,4C;MAKI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,eA
Ae,oBAAAJ,C;MACI,MAAM,2BAAuB,sBAAAvB,C;MACV,OAAO,qBAAU,MAAO,iBAAQ,cAAR,CAAjB,C;K;K;iG
AGvC,gC;MAMoB,Q;MAFhB,aAAAiB,I;MACjB,YAAY,K;MACI,2B;MAAhB,OAAgB,cAAhB,C;UAAgB,yB;UA
CZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,K;KAAJ,C;YAAW,OAAO,O;MACnB,OAAO,I;MACX,eAAe,oB
;MACX,IAAI,CAAC,QAAS,Q;K;IAGX,8B;MAIiB,Q;MAAAC,cAAc,oBAAAa,QAAS,Q;MAA4B,OAAL,c;aAC
H,C;UAAAK,MAAM,2BAAuB,gBAAAvB,C;;aACX,C;UAAAK,6BAAAK,C;UAAL,K;;K;IAAAoBsC,UAGT,MA
HS,EAarB,M;MN7pBb,IAAI,EMooBI,KAAK,CNpoBT,CAAJ,C;;QACI,cMmoBc,sD;QNloBd,MAAM,gCAAyB,OA
AQ,WAAjC,C;C;;MMmoBV,IAAI,MAAK,CAAT,C;QAAY,OA
AO,mB;MACnB,Q;MACA,IAAI,oCAAJ,C;QACI,iBAAiB,iBAAO,CAAP,I;QACjB,IAAI,cAAc,CAAAlB,C;UAACI,
OAAO,W;QACX,IAAI,eAAc,CAAAlB,C;UAACI,OAAO,iBAAAa,UAAb,C;QACP,IAAI,8BAAJ,C;UACI,IAAI,sCAA
J,C;YAC0B,iBAAAc,wB;ccACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;;;;UAEb,OAAAaAJ,C;;YAEI,wCAAAa,CAAb
,C;;;UAEb,OAAAa,I;;;;QAIX,OAAAa,gB;;MAEX,YAAAY,C;;MACC,6B;;MAAb,OAAab,OAAAa,gB;;MAAb,OAA
b,OAAA0B,qB;YAAtB,iBAAAc,wB;cACQ,IAAK,WAAI,KAAJ,C;;;;MN2qBBI,IAAI,EM2qBI,KAAK,CN3qBT,CAAJ
,C;;QACI,cM0qBc,sD;QNzqBd,MAAM,gCAAyB,OAAQ,WAAjC,C;C;;MM0qBV,kBAAgB,gBAAV,iBAAO,CAAP
,IAAU,EAAc,CAAd,CAAhB,C;MACI,K;kGAGX,yB;MAAA,4C;MAAA,qD;MAAA,uC;QAMI,CAAC,mBAAAL,C;
UAACI,eAAe,+BAAa,cAAb,C;UAACf,OAAO,QAAS,cAAhB,C;QAACI,YACI,IAAAA,CAAC,UAAAU,QAAS,WAAn
B,C;cACI,wBAAAcACJ,IAAAa,CAAC,CAAb,C;;;;MACC,gBAAAK,QAAS,YAAAT,GAAuB,CAAAvB,C;;;;QAIn
B,OAAA0B,W;;MACC,0B;YAAtB,iBAAAc,wB;;MO;KAdX,C;0FAiBA,yB;MAAA,qD;MAAAK,uC;QAMI,OAAA
W,iBAAa,cAAb,C;O;KANX,C;;K;IASA,8B;MAKiB,Q;MAFb,IAAI,mBAAAL,C;QAACI,OAAO,I;MO;KAfX,C;o
FAkBA,yB;MAAAL,4C;MAAA,qD;MAAA,uC;QAQI,OAAA0B,iBAAa,cAAb,C;O;KARX,C;;K;;;

MAAA,uC;QAMW,kBAAS,gB;QA2FA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA3FU,SA
2FN,CAAU,OAAV,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QA3F1D,OA4FO,W;O;KAlGX,C;kGASA,yB;MA
AA,+D;MA6jCA,wE;MA7jCA,uC;QAQW,kBAAgB,gB;QA4jCV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,c
AAb,C;UAAa,sB;UAhjCT,IAZmC,SAY/B,CAgjCkB,oBAAmB,cAAnB,EAAmB,sBAAnB,UAhjClB,EAgjC+C,IA
hjC/C,CAAJ,C;YAA2C,sBAgjCQ,IAhjCR,C;;QAZ/C,OAcO,W;O;KAtBX,C;sGAWA,yB;MAkjCA,wE;MAljCA,o
D;QAyjCiB,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAhjCT,IAAI,UAgjCkB,oBAAmB,c
AAnB,EAAmB,sBAAnB,UAhjClB,EAgjC+C,IAhjC/C,CAAJ,C;YAA2C,sBAgjCQ,IAhjCR,C;;QAE/C,OAAO,W;
O;KAXX,C;wGAcA,yB;MAAA,+D;MAAA,sC;QAMW,kBAAmB,gB;QASV,Q;QAAA,2B;QAAhB,OAAgB,cAA
hB,C;UAAgB,yB;UAAM,IAAI,YAAJ,C;YAAkB,WAAY,WAAI,OAAJ,C;;QATpD,OAUO,W;O;KAhBX,C;4GAS
A,4C;MAMoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,YAAJ,C;UAAkB,WAAY,WA
AI,OAAJ,C;;MACpD,OAAO,W;K;0FAGX,yB;MAAA,+D;MAAA,uC;QAMW,kBAAY,gB;QA4BH,Q;QAAA,2B;
QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CA5BS,SA4BR,CAAU,OAAV,CAAL,C;YAAyB,WAAY,
WAAI,OAAJ,C;;QA5B3D,OA6BO,W;O;KAnCX,C;IASA,oC;MAMI,OAAO,6BAAgB,gBAAhB,C;K;IAGX,mD;
MAMoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,eAAJ,C;UAAqB,WAAY,WAAI,OA
AJ,C;;MACvD,OAAO,W;K;8FAGX,6C;MAMoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,I
AAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;;MAC3D,OAAO,W;K;;MAC3D,OAAO,W;K;;MAC3D,OAAO,W;K;;MAC3D,OAAO,W;K;;MAC3D,OAAO,W;K;;MAC3D,OAAO,W;K;;MAC3D,OAAO,W;K;;

sBD4+BtD,uB;QAAmD,mB;QAA3D,OAAoE,OHl7BjE,WGk7BiE,C;;MAEjD,kBAAhB,0B;MAAwB,oB;MAA/B,
OHp7BO,W;K;wFGu7BX,yB;MAAA,wD;MJ56BA,sC;MAAA,oC;MAAA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAA
A,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;
S;OA4DI,C;MIq6Bf,sC;QAQI,OAAO,sBJ76BP,eAAW,iBI66BiB,QJ76BjB,CAAX,CI66BO,C;O;KARX,C;4GAW
A,yB;MAAA,wD;MJp6BA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB
;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA+EM,CA+EN,CAA3B,C;W;S;OA+EI,C;MI65Bf,sC;Q
AMI,OAAO,sBJn6BP,eAAW,2BIm6B2B,QJn6B3B,CAAX,CIm6BO,C;O;KANX,C;IASA,uC;MAMI,OAAO,wBA
AW,cAAX,C;K;IAGX,6C;MASe,Q;MAHX,IAAI,oCAAJ,C;QACG,IAAI,kBAAQ,CAAZ,C;UAAe,OAAY,SAAL,
SAAK,C;QAEe,kBAAlC,sBCvhCuD,sBDuhCvD,uB;QAA0C,iC;QAAlD,OAAyE,OH79BrE,WG69BqE,C;;MAEr
D,kBAAhB,0B;MAAwB,mC;MAA/B,OH/9BO,W;K;IGk+BX,qC;MAMoB,UACL,M;MAHX,aAAa,oBAAa,cAAb
,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAA
kB,O;;MACtB,OAAO,M;K;IAGX,kC;MAMoB,UACL,M;MAHX,aAAa,cAAU,cAAV,C;MACb,YAAY,C;MACI,2
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;I
AGX,kC;MAMoB,UACL,M;MAHX,aAAa,iBAAU,cAAV,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB
,C;QAAgB,oC;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;IAGX,oC;MAMoB,UACL,
M;MAHX,aAAa,iBAAY,cAAZ,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OA
AO,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;IAGX,mC;MAMoB,UACL,M;MAHX,aAAa,iBAAW,
cAAX,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP
,YAAkB,O;;MACtB,OAAO,M;K;IAGX,iC;MAMoB,UACL,M;MAHX,aAAa,eAAS,cAAT,C;MACb,YAAY,C;M
ACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,
M;K;IAGX,kC;MAMoB,UACL,M;MAHX,aAAa,iBAAU,cAAV,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,c
AAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;IAGX,mC;MAMoB,U
ACL,M;MAHX,aAAa,eAAW,cAAX,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAC
Z,OAAO,cAAP,EAAO,sBAAP,YAAkB,O;;MACtB,OAAO,M;K;0FAGX,yB;MAAA,kF;MAAA,0D;MAAA,yD;M
AAA,uE;MAAA,uC;QAWI,eAAwD,cAAzC,YAAY,mCAAwB,EAAxB,CAAZ,CAAyC,EAAc,EAAd,C;QACjD,k
BAAY,mBAAoB,QAApB,C;QAyEH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAZ,WA1E8C,SA0
E/B,CAAU,OAAV,C;UUbpkBnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;Qa0fA,OA4EO,W;O;KAxFX,C;
+FAeA,yB;MAAA,kF;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yC;QAWI,eAAwD,cAAzC,YAAY,mCAAwB,E
AAxB,CAAZ,CAAyC,EAAc,EAAd,C;QACjD,kBAAc,mBAAoB,QAApB,C;QA2BL,Q;QAAA,2B;QAAhB,OAAg
B,cAAhB,C;UAAgB,yB;UAAZ,WAAY,aA5BoC,WA4BhC,CAAY,OAAZ,CAAJ,EAA0B,OAAZ,CAAJ,EAA0B,C
;;QA5BhB,O
A8BO,W;O;KA1CX,C;+FAeA,yB;MAAA,kF;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,yD;QAUI,eAAwD,cAAz
C,YAAY,mCAAwB,EAAxB,CAAZ,CAAyC,EAAc,EAAd,C;QACjD,kBAAc,mBAAoB,QAApB,C;QA6BL,Q;QA
AA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAZ,WAAY,aA9BoC,WA8BhC,CAAY,OAAZ,CAAJ,EA9BiD,
cA8BvB,CAAe,OAAf,CAAA1B,C;;QA9BhB,OAgCO,W;O;KA3CX,C;mGAcA,+C;MAUoB,Q;MAAA,2B;MAAh
B,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAY,OAAZ,CAAJ,EAA0B,OAA1B,C;;
MAEhB,OAAO,
W;K;mGAGX,+D;MAUoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sB
AAP,YAAY,OAAZ,CAAJ,EAA0B,eAAe,OAAf,CAAA1B,C;;MAEhB,OAAO,W;K;8FAGX,6C;MASoB,Q;MAA
A,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,cAAP,EAAO,sBAAP,YAAY,OAAZ,CAAZ,C;;Qb
pkBnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;Qa0fA,OA4EO,W;O;KAxFX,C;kGAGX,yB;MAAA,kF;
MAAA,0D;MAAA,yD;MAAA,2C;QAYI,aAAa,mBAA6D,cAAzC,YAAY,mCAAwB,EAAxB,CAAZ,CAAyC,EA
Ac,EAAd,CAA7D,C;QACG,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAZ,UAbO,MAAP,aAAI,O
AAJ,EAAd,aAcF,CAAc,OAAd,CAAA1B,C;;QAdM,OAAd,CAAc,OAAd,CAAA1B,C;;MAEhB,OAAO,W;K;IAGX
,gD;MAIiB,Q;MAAA,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAACT,WAAY,WAAI,IAAAJ,C;;MAEhB,OAAO,
W;K;IAGX,gC;MAII,OAAO,0BAAa,eAAW,YAAY,mCAAwB,EAAxB,CAAZ,CAAX,CAAZ,CAAX,CAAb,C;K;I
AGX,6B;MAKqB,IAAN,I;MADX,IAAI,oCAAJ,C;QACW,QAAM,cAAN,CAAb,sBAAI,CAAJ,EAAd,aAcA,CA
Ac,OAAd,CAAA1B,C;;MAEhB,OAAO,W;K;IAGX,gC;MAII,OAAO,0BAAa,gC;MAII,OAAO,0BAAa,gB
AAb,C;K;;MAAA,iC;MADX,IAAI,oCAAJ,C;QACW,QAAM,cAAN,C;UACI,IAAI,kBAAQ,CAAZ,C;YAAe,OA
AY,SAAL,SAAK,C;UACf,eAAgC,QAAhB,sBAAQ,CAAR,C;;MAAA,4B;MAAb,OAAa,cAAb,C;QAAa,sB;Q
AAL,K;;MAAA,WAAI,WAAI,IAAAJ,C;;MAEhB,OAAO,W;K;;MAMJ,OAA4B,qBAAhB,gBAAL,SAA
AK,CAAgB,C;K;K;IAGhC,oC;MAII,IAAI,oCAAJ,C;QACI,OAAAY,gBAAL,SAAK,C;MAChB,OAAO,0BAAa,gBA

Ab,C;K;IAGX,oC;MAII,OAAO,iBAAU,SAAV,C;K;IAGX,4B;MAOqB,IAAN,I;MADX,IAAI,oCAAJ,C;QACW,Q
AAM,cAAN,C;eACH,C;YAAK,iB;YAAL,K;eACA,C;YAAK,aAAU,8BAAJ,GAAkB,sBAAK,CAAL,CAAlB,GA
A+B,oBAAW,OAAhD,C;YAAL,K;;YACQ,iCAAa,qBAAiB,YAAY,cAAZ,CAAjB,CAAb,C;YAHL,K;;QAAP,W;;
MAMJ,OAAwC,oBAAjC,0BAAa,sBAAb,CAAiC,C;K;sFAG5C,yB;MAAA,+D;MAwFA,gD;MAxFA,uC;QAMW,
kBAAU,gB;QAsFD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAvF6B,SAuFlB,CAAU,OAA
V,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAxFhB,OA0FO,W;O;KAhGX,C;uFASA,yB;MAAA,+D;MA0FA,g
D;MA1FA,uC;QAUW,kBAAU,gB;QAwFD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzF6
B,SAyFlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1FhB,OA4FO,W;O;KAtGX,C;oGAaA,yB;
MAAA,+D;MA8BA,wE;MAAA,gD;MA9BA,uC;QAYW,kBAAiB,gB;QA6BR,gB;QADhB,YAAY,C;QACI,2B;Q
AAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA9BoC,SA8BzB,CAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UA
AV,EAAuC,OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA/BhB,OAiCO,W;O;KA7CX,C;oGAeA,yB;MA
AA,+D;MAiCA,wE;MAAA,gD;MAjCA,uC;QAYW,kBAAiB,gB;QAgCR,gB;QADhB,YAAY,C;QACI,2B;QAAh
B,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjCoC,SAiCzB,CAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,E
AAuC,OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlChB,OAoCO,W;O;KAhDX,C;wGAeA,yB;MAAA,+
D;MAiCA,wE;MAjCA,uC;QAYW,kBAAiB,gB;QAgCR,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAh
B,C;UAAgB,yB;UACZ,WAjCoC,SAiCzB,CAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,OAAvC,
C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlChB,OAoCO,W;O;KAhDX,C;wGAeA,yB;MAAA,+D;MAiCA,wE;
MAjCA,uC;QAYW,kBAAiB,gB;QAgCR,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,y
B;UACZ,WAjCoC,SAiCzB,CAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,OAAvC,C;UACC,OAA
Z,WAAY,EAAO,IAAP,C;;QAlChB,OAoCO,W;O;KAhDX,C;0FAeA,yB;MAAA,+D;MAiBA,wE;MAjBA,uC;Q
AYW,kBAAiB,gB;QAgBR,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA
jBoC,SAiBzB,CAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,OAAvC,C;UACC,OAAZ,WAAY,E
AAO,IAAP,C;;QAlBhB,OAoBO,W;O;KAhCX,C;;QAEhB,OAAO,W;O;KAZX,C;;MAwFA,oD;MAxFA,uC;Q
AYW,kBAAU,gB;QAgFD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjF6B,SAiFlB,CAAU,
OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlFhB,OAoFO,W;O;KAhGX,C;;MAwFA,oD;MAxFA,uC;Q
AYW,kBAAU,gB;QAgFD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjF6B,SAiFlB,CAA
U,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlFhB,OAoFO,W;O;KAhGX,C;;MAwFA,oD;MAxFA,u
C;QAYW,kBAAU,gB;QAgFD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAjF6B,SAiFlB,C
AAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAlFhB,OAoFO,W;O;KAhGX,C;;MAsGA,oD;MAtGA,
uC;QAUW,kBAAU,gB;QA8FD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/F6B,SA+FlB,
CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhGhB,OAkGO,W;O;KA9GX,C;;MAsGA,oD;MAtG
A,uC;QAUW,kBAAU,gB;QA8FD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA/F6B,SA+Fl
B,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhGhB,OAkGO,W;O;KA9GX,C;;MAkGA,oD;MAl
GA,uC;QAUW,kBAAU,gB;QA0FD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3F6B,SA2F
lB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5FhB,OA8FO,W;O;KA1GX,C;0GAaA,yB;MAA
A,kEACA,8C;QAAA,6B;;YAAA,c;;;YAAA,c;;UAamnCP,U;UADP,YaynCe,WbznCH,WaynCwB,GbznCxB,C
;UACL,IAAI,aAAJ,C;YACH,aaunCuC,gB;YAA5B,WbtnCX,aasnCgC,GbtnChC,EAAS,MAAT,C;YACA,e;;YA
EA,c;;UamnCA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA5BT,OA8BO,W;O;KAvCX,C;;MAkGA,oD;MAlGA,uC;Q
AUW,kBAAU,gB;QA0FD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WA3F6B,SA2FlB,CAA
U,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5FhB,OA8FO,W;O;KA1GX,C;;MAgGA,oD;MAhGA,uC;
QAUW,kBAAU,gB;QAwFD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAzF6B,SAyFlB,CA
AU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA1FhB,OA4FO,W;O;KAxGX,C;0GAaA,yB;MAAA,kEA
CA,8C;QAAA,6B;;YAAA,c;;;YAAA,c;;UamnCP,U;UADP,Ya2oCe,Wb3oCH,Wa2oCwB,Gb3oCxB,C;UACL,I
AAI,aAAJ,C;YACH,aayoCuC,gB;YAA5B,WbxoCX,aawoCgC,GbxoChC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U
amnCA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA5BT,OA8BO,W;O;KAvCX,C;;MAUA,oD;MAVA,uC;QAEW,kBA
AU,gB;QAEV,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAEZ,WAFyB,SAElB,CA
AU,IAAR,eAAQ,EAAR,OAAQ,GAAV,EAA2B,OAA3B,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAHhB,OAK
O,W;O;KAXX,C;;QAMiB,Q;QADhB,gB;QACA,YAAY,cAAZ,C;QAAsB,OAAf,WAAe,WAAxB,SAAwB,EAA
I,OAAJ,C;O;KAPX,C;0GAUA,yB;MAAA,kEACA,8C;QAAA,6B;;YAAA,c;;;YAAA,c;;UamnCP,U;UADP,Ya2o
Ce,Wb3oCH,Wa2oCwB,Gb3oCxB,C;UACL,IAAI,aAAJ,C;YACH,aayoCuC,gB;YAA5B,WbxoCX,aawoCgC,Gb
xoChC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UamnCA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA5BT,OA8BO,W;O;
KAvCX,C;;MAMA,oD;MANA,uC;QAEW,kBAAU,gB;QAEV,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,
cAAhB,C;UAAgB,yB;UACZ,IAAI,MAAT,WAAS,WAAxB,SAAwB,EAAI,OAAJ,C;YACH,WADyB,SAClB,CA
AU,OAAV,C;YACA,eAAe,I;;YAEf,WAJyB,SAIlB,CAAU,OAAV,C;YACA,WAAY,gBAAO,OAAP,C;;;QA
LhB,OAOO,W;O;KAbX,C;;MAUA,oD;MAVA,uC;QAEW,kBAAU,gB;QAEV,gB;QADhB,YAAY,C;QACI,2B;
QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAK,WAAI,MAAT,WAAS,WAAxB,SAAwB,EAAI,OAAJ,C;
UACL,WAFyB,SAElB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAHhB,OAKO,W;O;KAXX,C;;
MAOiB,Q;QADhB,gB;QACA,YAAY,cAAZ,C;QAAsB,OAAf,WAAe,WAAxB,SAAwB,EAAI,OAAJ,C;O;KA
RX,C;;QA1RS,iB;QAAA,cAVQ,SAUR,CAA0RT,oBAAmB,cAAnB,EAAmB,sBAAnB,UAA1RS,EAA0RoB,I
A1RpB,W;YAA6C,6B;;;QAVhF,OAWO,W;O;KAlBX,C;8GAAA,yB;MAAA,+D;MAlBX,C;8GAUA,yB;MAlBX
,C;8GAUA,yB;MAAA,+D;MA0RA,oD;MAiSiB,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UA
AgB,yB;UACZ,WA3R6B,SA2RlB,CAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA5RhB,OA8RO,
W;O;KA1SX,C;;QAAA,cAVQ,SAUR,CAA0RT,oBAAmB,cAAnB,EAAmB,sBAAnB,UAA1RS,EAA0RoB,IA1

RsB,U;UAAA,wBA0RT,oBAAmB,cAAnB,EAAmB,sBAAnB,UA1RS,EA0RoB,IA1RpB,W;YAA6C,6B;;;QAChF,
OAAO,W;O;KARX,C;+FAWA,yB;MAAA,wE;MAAA,oD;QAQiB,UACoC,M;QAFjD,YAAY,C;QACC,2B;QAA
b,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAAI,UAAU,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,IA
AvC,CAAJ,C;;QAChB,OAAO,W;O;KAVX,C;4FAaA,yB;MAAA,+D;MAAA,uC;QAOW,kBAAa,gB;QAwPJ,Q;Q
AAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAhPK,U;UAAA,cARe,SAQf,CAgPQ,OAhPR,W;YAAsC,6B;;;
QAR3D,OASO,W;O;KAhBX,C;gGAUA,yB;MAAA,oD;QAqPoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAg
B,yB;UAhPK,U;UAAA,wBAgPQ,OAhPR,W;YAAsC,6B;;;QAC3D,OAAO,W;O;KANX,C;kFASA,6C;MAKiB,Q;
MAAA,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAAO,W;K;
IAQiB,4C;MAAA,mB;QAAE,gC;O;K;IAL9B,gC;MAKI,OAAO,qBAAiB,6BAAjB,C;K;IAGX,+B;MASI,OAA2B,
SAAf,eAAL,SAAK,CAAe,C;K;4FAG/B,yB;MAAA,2D;MAAA,+D;MAAA,sC;QAYc,Q;QAFV,UAAU,c;QACV,
WAAW,gB;QACD,2B;QAAV,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,SAAS,CAAT,C;UACV,IAAI,GAAI,W
AAI,GAAJ,CAAR,C;YACI,IAAK,WAAI,CAAJ,C;;MAChB,OAAO,I;O;KAjBX,C;IAoBA,uC;MAQI,UAAe,eAAL,S
AAK,C;MACX,YAAAJ,GAAAI,EAAAU,KAAAV,C;MACJ,OAAO,G;K;IAGX,sC;MAMiB,IAAN,I;MACH,kBADS,SACT,c;
QAAoB
,4BAAc,SAAd,C;;QACZ,iCAAa,sBAAb,C;MAFZ,W;K;IAMJ,mC;MAUI,UAAe,eAAL,SAAK,C;MACX,OAAJ,G
AAI,EAAAO,KAAAP,C;MACJ,OAAO,G;K;IAGX,8EAGX,yB;MAAA,gD;MAAA,uC;QAOoB,Q;QADhB,IAAI,wCAAsB,
mBAAA1B,C;UAAAqC,OAAAO,I;QAC5B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CAAC,UAAU,O
AAV,CAAL,C;YAAyB,OAAAyB,OAAAO,K;;QACtD,OAAO,I;O;KARX,C;IAoBA,2B;MAMI,oCAAJ,C;QAAwB,OA
AO,CAAC,mB;MAChC,OAAO,oBAAW,U;K;;EAGtB,yB;MAAA,gD;MAAA,uC;QAOoB,Q;QADhB,IAAI,wCAA
sB,mBAAA1B,C;UAAAqC,OAAAO,I;QAC5B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OA
AV,CAAJ,C;YAAwB,OAAAyB,OAAAO,I;;QACtD,OAAO,K;O;KARX,C;IAoBA,2B;MAMI,oCAAJ,C;QAAwB,OAC
f,CAAC,mB;QACI,OAAAyB,OAAAc;K;K;mFAGX,qB;MAKI,OAAO,c;K;mFAGX,yB;MAAA,gD;MAAA,wE;MAA
A,uC;QAMoB,Q;QAFhB,IAAI,wCAAsB,mBAAA1B,C;UAAAqC,OAAAc;QAC1B,OAAO,c;QACC,2B;QAAhB,O
AAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,oBAAAO,KAAAP,C;;QAClD,OAAO,
oB;O;KAPX,C;IAcA,uB;MAKI,OAAO,Q;K;K;IAUX,+B;MAMI,OAAO,c;K;mFAGX,yB;MAAA,gD;MAAA,gD;M
AAA,wE;MAAA,uC;QAMoB,Q;QAFhB,IAAI,wCAAsB,mBAAAoB,C;UAAAoB,OAAAc;QAC1B,OAAO,c;QAC
C,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;YAAyB,oBAAAO,KA
AAP,C;;QAClD,OAAO,oB;O;KAPX,C;IAcA,uB;MAKI,OAAO,Q;K;K;IAUX,+B;MASc,Q;QAAA,2B;QAAD,OA
CU,WADV,IACU,CAAU,OAAV,CAAJ,C;UAAyB,OAAAoB,OAAAc;;QAClD,OAAO,K;K;wGAGX,yC;MAUI,O
AAO,QAAS,IAAI,iBAAJ,EAAuB,cAAvB,EAAuC,iBAAvC,C;K;;O;KApvB,C;IAUA,0B;MAII,OAAO,sB;K;IAGX,
X,C;mFAuBA,yB;MAAA,sE;MAAA,oD;QAQiB,UACoC,M;QAFjD,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UA
Ay

B,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF31DG,MAAO,KE21DO,QF31DP,EE21DiB,CF31DjB,C;;QE61Dd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAAA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;+FAuBA,yB;MFp3DA,iB;MEo3DA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF53DG,MAAO,KE43DO,QF53DP,EE43DiB,CF53DjB,C;;QE83Dd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MFp5DA,iB;MEo5DA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF55DG,MAAO,KE45DO,QF55DP,EE45DiB,CF55DjB,C;;QE85Dd,OAAO,Q;O;KAlBX,C;+FAqBA,+B;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAlB,C;QACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,WAAW,C;;;MAGnB,OAAO,Q;K;0FAGX,yB;MAAA,sE;MAAA,kD;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;sGAuBA,2C;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAlB,C;QACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;UACI,WAAW,C;;;MAGnB,OAAO,Q;K;IAGX,gC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MFn+DG,MAAO,KEm+DE,GFn+DF,EEm+DO,CFn+DP,C;;MEq+Dd,OAAO,G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MF//DG,MAAO,KE+/DE,GF//DF,EE+/DO,CF//DP,C;;MEigEd,OAAO,G;K;IAGX,iC;MAKI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,gD;MAKI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,0B;MAII,OAAO,sB;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;kFAGX,+B;MAGW,sB;;QAUP,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;;QACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,O;UAAP,uB;;QACzB,eAAe,oAdmB,QAcnB,CAAd,O;QAAT,C;;UAEX,QAAQ,QAAS,O;;UACjB,QAAjB,QAAiB,EAAiBP,CAAAS,CAAAT,C;;UAAlB,C;;QAED,QAAAT,QAAAS,W;QAAAT,CAAlB,qBAAAO,O;;;MAvBP,yB;K;8FAGJ,+B;MAOI,eAAe,oB;QAAf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;QAAhC,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,O;QAAhC,cAAc,QAAS,O;;QAChC,eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;;QACjB,QAAQ,SAAS,CAAT,C;;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;QAAoC,MAAM,C;;;MAEvB,OAAO,O;K;mFAGX,yB;MAAA,sE;MFl4DA,iB;MEk4DA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF54DG,MAAO,KE44DO,QF54DP,EE44DiB,CF54DjB,C;;QE84Dd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MFp6DA,iB;MEo6DA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF96DG,MAAO,KE86DO,QF96DP,EE86DiB,CF96DjB,C;;QEg7Dd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAAA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;+FAuBA,yB;MFv8DA,iB;MEu8DA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF/8DG,MAAO,KE+8DO,QF/8DP,EE+8DiB,CF/8DjB,C;;QEi9Dd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MFv+DA,iB;MEu+DA,sC;QAWI,eAAe,oB;QACf,WFv+DI,MFv+D

A,iB;MEu+DA,sC;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,Q
AAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WF/+DG,MAAO,
KE++DO,QF/+DP,EE++DiB,CF/+DjB,C;;QEi/Dd,OAAO,Q;O;KAlBX,C;+FAqBA,+B;MASI,eAAe,oB;MACf,IA
AI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,QAAS,UAAh
B,C;QACI,QAAQ,SAAS,QAAS,OAAlB,C;QACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,WAAW,C;;;MAGnB,OA
AO,Q;K;0FAGX,yB;MAAA,sE;MAAA,kD;QAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM
,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C
;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAA
O,Q;O;KApBX,C;sGAuBA,2C;MASI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,e
AAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,SAAS,QAAS,OAAlB,C;QACR,IAAI
,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;UACI,WAAW,C;;;MAGnB,OAAO,Q;K;IAGX,
gC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OA
AO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MFtjEG,MAAO,KEsjEE,GFtjEF,EEsjEO,CFtjEP,C;;MEwj
Ed,OAAO,G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,
QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,MFllEG,MAAO,KEklEE,GFllEF,EE
klEO,CFllEP,C;;MEolEd,OAAO,G;K;IAGX,iC;MAKI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OA
AO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,
CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,0C;MAGI,OAAO,2BAAc,UAAd,C;K;IAGX,gD;M
AKI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,
QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAA
jC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,4B;MAMI,IAAI,oCAAJ,C;QAAwB,OAAO,mB;MAC/B,OA
AO,CAAC,oBAAW,U;K;iFAGvB,yB;MAAA,gD;MAAA,uC;QAOoB,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UA
AqC,OAAO,I;QAC5B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UUAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,
OAAO,K;;QACrD,OAAO,I;O;KARX,C;oFAWA,yB;MAAA,2B;MAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACI,IAA
I,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,K;;QAC3B,OAAO,I;O;KAAhB,wE;MAqnBA,2BAQiB,yB;QA7nBjB,
wE;eA6nBiB,0B;UAAA,4B;YAAE,aAAe,c;YAtnBjB,gB;YADb,YAAY,C;YACC,2B;YAAb,OAAa,cAAb,C;cAAa,
sB;cAAM,UAAWZ,wE;eA6nBiB,0B;UAAA,4B;YAAE,aAAe,c;YAtnBjB,gB;YADb,YAAY,C;YACC,2B;YAAb,O
AAa,cAAb,C;cAAa,sB;cAAM,UAAW,SAAQ,OAAR,EAAiB,CAAjB,C;;YACf,OAAO,K;;;UU;YAsnBA,2BAQiB
,gB;O;KARJ,C;oFAWA,yB;MAAA,4F;MAAA,uC;QAMoB,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,OAA
O,I;QAC5B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACI,IAAI,CAAC,UAAU,OAAV,CAAL,C;YAAyB,OAA
O,K;;QACpC,OAAO,I;O;KAPX,C;;QAElB,OAAO,I;W;O;KAnBX,C;kGAsBA,yB;MAAA,4F;MAAA,uC;QAMoB,
Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,OAAO,I;QAC5B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UA
CI,IAAI,CAAC,UAAU,OAAV,CAAL,C;YAAyB,OAAO,K;;QACpC,OAAO,I;O;KAPX,C;0GAUA,yB;MAAA,gD;
MAAA,uC;QAOoB,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,OAAO,I;QAC5B,2B;QAAhB,OAAgB,cAA
hB,C;UAAgB,yB;UACI,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,K;;QACnC,OAAO,I;O;KARX,C;;

AcI,eAAe,+BAAa,cAAb,C;MACf,IAAI,CAAC,QAAS,cAAd,C;QACI,OAAO,I;MACX,kBAAqB,QAAS,W;MAC9 B,OAAO,QAAS,cAAhB,C;QACI,cAAc,UAAU,QAAS,WAAnB,EAA+B,WAA/B,C;;MAElB,OAAO,W;K;8FAG X,yB;MAAA,kF;MAAA,gD;MAAA,gE;MAAA,gD;QAiBoB,Q;QAJhB,oBAAoB,mCAAwB,CAAxB,C;QACpB,I AAI,kBAAiB,CAArB,C;UAAwB,OAAO,OAAO,OAAP,C;QACc,kBAAhC,eAAa,gBAAgB,CAAhB,IAAb,C;QAA wC,8B;QAAArD,aHjjFO,W;QGkjFP,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,U AAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KArBX,C;4GAwBA,yB;M AAA,kF;MAAA,gD;MAAA,gE;MAAA,gD;QAmBoB,UACY,M;QAN5B,oBAAoB,mCAAwB,CAAxB,C;QACpB, IAAI,kBAAiB,CAArB,C;UAAwB,OAAO,OAAO,OAAP,C;QACc,kBAAhC,eAAa,gBAAgB,CAAhB,IAAb,C;QA AwC,8B;QAAArD,aH1kFO,W;QG2kFP,YAAY,C;QACZ,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAg B,yB;UACZ,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAAhC,C;UACd,MAAO,WAAI,W AAJ,C;;QAEX,OAAO,M;O;KAvBX,C;kGA0BA,yB;MAAA,qD;MAAA,kF;MAAA,gE;MAAA,uC;QAcI,eAAe,S AAK,W;QACpB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,W;QAChC,sBAAqB,QAAS,OAA9B,C;QACuD,k BAA1C,eAAa,mCAAwB,EAAxB,CAAb,C;QAAAkD,sBAAAI,aAAJ,C;QAA/D,aHrmFO,W;QGsmFP,OAAO,QAAS, UAAhB,C;QACI,gBAAc,UAAU,aAAV,EAAuB,QAAS,OAAhC,C;;QAEX,OAAO,M;O;KAtBX,C;gHAyBA,yB;M AAA,qD;MAAA,kF;MAAA,gE;MAAA,uC;QAoBgC,Q;QAN5B,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAd, C;UAAyB,OAAO,W;QAChC,sBAAqB,QAAS,OAA9B,C;QAC2D,kBAA9C,eAAa,mCAAwB,EAAxB,CAAb,C;Q AAA1C,sBAAAI,aAAJ,C;QAA/D,aHrmFO,W;QGsmFP,YAAY,C;QACZ,OAAO,QAAS,UAAhB,C;QACI,gBAAc,U AAU,YAAV,EAAU,oBAAV,SAAmB,aAAnB,EAAgC,QAAS,OAAzC,C;;QAEX,OAAO,M;O;KAvBX,C;gFA0BA,y B;MArGA,kF;MAAA,gD;MAAA,gE;MAqGA,gD;QAcW,sB;;UUlGS,Q;UAJhB,oBAAoB,mCAAwB,CAAxB,C;UACpB, IAAI,kBAAiB,CAArB,C;UAAwB,qBAAO,OAAqB,CAAY;ATAwB,uB;;QAYP,uB;;UUCqB,kBAAC,sBAAAhC,aAo GlC,OApGkC,CAApBgC,C;;QAYP,uB;;UTDK;;QUvGX,kBAAoB,mCAAwB,EAAxB,C;QACpB,aHjjFO,W;QGkjFP,k BAmGmB,O;QAlGH,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;U ACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KApBX,C;gFAuBA,yB;MAxGA,kF;MAAA,gD;MAAA,gE;MAwG A,gD;QAcW,sB;;UUlGS,Q;UAJhB,oBAAoB,mCAAwB,CAAxB,C;UACpB,IAAI,kBAAiB,CAArB,C;UAAwB,qBA AO,OAAO,OAAP,C;UACc,kBAAhC,eAAa,gBAAgB,CAAhB,IAAb,C;UAAwC,8B;UAAApC,aH1kFO,W;UG2kFP,YA AY,C;UACZ,kBAoGmB,O;UAnGH,2B;UAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,WAAU,cAAV,EAAU,sB AAV,WAAmB,WAAnB,EAAgC,OAAhC,C;UACd,MAAO,WAAI,WAAJ,C;;QAYP,uB;;UTCK;;QUDL,qBAoGO,M;O;KA vBX,C;MjB/EA,6B;MiB+EA,sC;QAWoB,Q;QADhB,UjB/EmD,iB;QiBgFnD,MjBjFmB,oB;MAkF7B,2B;QAAhB,OAAgB,cA AhB,C;UAAgB,yB;UACZ,cAAc,UjBnFsB,WiBmFV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;UACP,IAAI,kB AoGgC,CApGhC,UoGgGc,OAAO,cAAP,C;;QAsGhB,qBAAO,M;O;KAvBX,C;MjBvFA,6B;MiBuFA,sC;QAWoB,Q;QADh B,UjBvFmD,iB;QiBwFnD,MjBzFmB,oB;MjA0F7B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UjB3FsB,W iB2FV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAJ,C;UACP,IAAI,kBoGeiC,CpGfjC,UoGWc,OAAO,cAAP,C;;QAsGh B,qBAAO,M;O;KAvBX,C;gGA0BA,yB;MAAA,SASoB,gB;MATpB,sC;QAUoB,Q;QADhB,UjBSmD,iB;QiBRnD,MjBO mB,oB;MiBN7B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UjBKsB,WiBLV,EAAuB,OAAvB,C;;QAYP,uB ;;UUDK;;QUDL,qBAAO,M;O;KAvBX,C;MjB+EA,6B;MiB+EA,sC;QAWoB,Q;QADhB,UjB/EmD,iB;QiBgFnD,MjBjFm B,oB;MiBkF7B,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UjBnFsB,WiBmFV,EAAuB,OAAvB,C;UACd,M AAO,WAAI,WAAJ,C;;QAYP,uB;;UUDK;;QUDL,qBAAO,M;O;KAvBX,C;;QCmxFvD,OAAO,G;O;KAdX,C;IAiBA,q C;MAIoB,UAMT,M;MANS,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;QACZ,IAAI,eAAAJ,C;QUACI,MAAM,gCAAyB, 2BAAwB,SAAxB,MAAzB,C;;;MAId,OAAO,mE;K;IAGX,qC;MAIoB,UAMT,M;MANS,2B;QAAhB,OAAgB,cAAhB,C; UAAgB,yB;QACZ,IAAI,eAAAJ,C;QUACI,MAAM,gCAAyB,2BAAwB,SAAxB,MAAzB,C;;;MAId,OAAO,+D;K;IA GX,kC;MAWI,OAAO,oBAAS,IAAT,EAAe,IAAf,EAAqB,EAArB,EAAyB,IAAzB,EAA+B,IAA/B,EAAqC,IAArC,C; K;IAGX,mC;MAII,aAAAa,iBAAa,mCAAwB,EAAxB,CAAb,C;MACb,kBAAAc,KAAAd,C;MAAnlEgB,Q;MAAA,OAAl ET,SAAplES,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QQAgB,QAAU,oB;QAolEK,IAAI,CAAC,QAAS,SAAD,IAAY,OA AplEX,SAolEW,UAA AhB,C;QUAAiC,YAAU,I;QUAA3C,mBAAAiD,K;;UUAjD,mBAAA8D,I;;QQAplEvE,qB;UUolED,MAAplEqC,WAAAI,SAA,

J,C;;MAolE1D,OAAqB,M;K;IAGzB,sC;MAQI,IAAI,QpB0yJG,YAAQ,CoB1yJf,C;QAAwB,OAAY,SAAL,SAAK,
C;MACpC,YAAqB,8BAAT,QAAS,C;MAtoEd,kBAAY,gB;MA4BH,Q;MAAA,OA2mET,SA3mES,W;MAAhB,O
AAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CA2mEF,qBA3mEa,OA2mEb,CA3mEF,C;UAAyB,WAAY,WAAI,O
AAJ,C;;MA2mE3D,OA1mEO,W;K;IA6mEX,sC;MAQI,YAAqB,gCAAT,QAAS,EAAgC,SAAhC,C;MACrB,IAAI,
KAAM,UAAV,C;QACI,OAAY,SAAL,SAAK,C;MAppET,kBAAY,gB;MA4BH,Q;MAAA,OAynET,SAznES,W;
MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAynEF,qBAznEa,OAynEb,CAznEF,C;UAAyB,WAAY,W
AAI,OAAJ,C;;MAynE3D,OAxnEO,W;K;IA2nEX,sC;MAQI,YAAqB,8BAAT,QAAS,C;MACrB,IAAI,KAAM,UA
AV,C;QACI,OAAY,SAAL,SAAK,C;MAlqET,kBAAY,gB;MA4BH,Q;MAAA,OAuoET,SAvoES,W;MAAhB,OA
AgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAuoEF,qBAvoEa,OAuoEb,CAvoEF,C;UAAyB,WAAY,WAAI,OAAJ,
C;;MAuoE3D,OAtoEO,W;K;8FAyoEX,yB;MAAA,8C;MAAA,qC;QAKI,OAAO,iBAAM,OAAN,C;O;KALX,C;0F
AQA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAUoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,gB;QACG,2B;QAAhB,O
AAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,OAAJ,C;;YAEN,MAAO,
WAAI,OAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;KAjBX,C;IAoBA,kC;MAII,IAAI,oCAAJ,C;QA
AwB,OAAY,OAAL,SAAK,EAAK,OAAL,C;MACpC,aAAa,gB;MACN,OAAP,MAAO,EAAO,SAAP,C;MACP,M
AAO,WAAI,OAAJ,C;MACP,OAAO,M;K;IAGX,oC;MAII,aAAa,iBAAAa,iBAAO,CAAP,IAAb,C;MACb,MAAO,g
BAAO,SAAP,C;MACP,MAAO,WAAI,OAAJ,C;MACP,OAAO,M;K;IAGX,qC;MAII,IAAI,oCAAJ,C;QAAwB,O
AAY,OAAL,SAAK,EAAK,QAAL,C;MACpC,aAAa,gB;MACN,OAAP,MAAO,EAAO,SAAP,C;MACA,SAAP,M
AAO,EAAO,QAAP,C;MACP,OAAO,M;K;IAGX,qC;MAII,aAAa,iBAAAa,iBAAAa,SAAK,KAAL,GAAY,QAAS,OAArB,IA
Ab,C;MACb,MAAO,gBAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;IAGX,qC;MA
II,IAAI,oCAAJ,C;QAAwB,OAAY,OAAL,SAAK,EAAK,QAAL,C;MACpC,aAAa,gB;MACN,OAAP,MAAO,EAA
O,SAAP,C;MACA,OAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;IAGX,qC;MAII,IAAI,mCAAJ,C;QACI,a
AAa,iBAAAa,SAAK,KAAL,GAAY,QAAS,KAAArB,IAAb,C;QACb,MAAO,gBAAO,SAAP,C;QACP,MAAO,gBAA
O,QAAP,C;QACP,OAAO,M;;QAEP,eAAa,iBAAAa,SAAb,C;QACN,OAAP,QAAO,EAAO,QAAP,C;QACP,OAAO
,Q;;K;IAIf,qC;MAII,aAAa,gB;MACN,OAAP,MAAO,EAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MA
CP,OAAO,M;K;IAGX,qC;MAII,aAAa,iBAAAa,SAAK,KAAL,GAAY,EAAZ,IAAb,C;MACb,MAAO,gBAAO,SAA
P,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;4FAGX,yB;MAAA,4C;MAAA,qC;QAKI,OAAO,
gBAAK,OAAL,C;O;KALX,C;8FAQA,yB;MAAA,4C;MAAA,qC;QAKI,OAAO,gBAAK,OAAL,C;O;KALX,C;IA
QA,yD;MAgB+C,oB;QAAA,OAAY,C;MAAG,8B;QAAA,iBAA0B,K;MAOzE,Q;MANX,oBAAoB,IAApB,EAA0
B,IAA1B,C;MACA,IAAI,0CAAwB,8BAAA5B,C;QACI,eAAe,SAAK,K;QACpB,qBAAqB,YAAW,IAAX,SAAsB,
WAAW,IAAX,KAAmB,CAAvB,GAA0B,CAA1B,GAAiC,CAAnD,K;QACrB,aAAa,iBAAAmB,cAAnB,C;QACb,g
BAAY,CAAAZ,C;QACA,Y;UAAO,c;UAAP,MAAgB,CAAAT,mBAAiB,QAAxB,E;YAAA,K;UACI,iBAAAsB,eAAL,
eAAAL,IAAAK,EAAaW,OAAAX,IAAb,C;UAACtB,IAAAaAAb,IAAAaAAqB,CAAAC,cAAAD,Y;;QAGF,Uc49FrB,MAA
O,Wd39FR,Ic29FQ,C;MAUACP,oBAAAS,IAAAT,I;;QAEJ,OAAO,M;;MAEX,eAAAa,gB;MACiE,kBAAA9E,iBAAAiB,oBAAAjB,E
AAA6B,IAA7B,EAAAmB,IAAAnB,E,EAAAyC,cAAAzC,E,EAAAuC,EAAAvC,E,KAAAvE,C;ME5lGA,OAAAgB,qBAAA
hB,C;QAAgB,gC;QF6lGL,mBE7lGqB,OF6lGrB,C;;MAEX,OAAO,Q;K;IAGX,sE;MAkBkD,oB;QAAA,OAAAY,C;M
AAG,8B;QAAA,iBAA0B,K;MACvF,oBAAoB,IAApB,EAA0B,IAA1B,C;MACA,IAAI,0CAAwB,8BAAA5B,C;QACI,eA
Ae,SAAK,K;QACpB,qBAAqB,YAAW,IAAX,SAAsB,WAAW,IAAX,KAAmB,CAAvB,GAA0B,CAA1B,GAAiC,C
AAnD,K;QACrB,aAAa,iBAAAmB,cAAb,C;QACb,eAAa,iBAAAa,kBAAc,SAAd,C;QACb,YAAY,C;QACZ,OAAg
B,CAAAT,mBAAiB,QAAxB,E;UAAxB,MAAO,iBAAAA,CAAAA,mBAAY,KAAAX,I;;QAEX,iBAAA5B,C;QACb,eAA
a,iBAAAsB,gBAAAtB,C;QAEJ,OAAO,M;;MAEX,eAAAa,gB;MAM9E,kBAAAiB,oBAAA5E,EAAA6B,IAAA7B,E,EAAA
mB,IAAAnB,E,EAAAyC,cAAAzC,E,EAAAuC,EAAAvC,E,EAAAyC,vAAAvE,C;ME9lGA,OAAAgB,qBAAAhB,C;QA
Agg,gC;QFumGL,mBE7mGAvAAI,UEvoGgiB,OFuoGjB,CAAJ,C;;MAEX,OAAO,Q;K;IAGX,kC;MAqBoB,gB;MAHh
B,gBAAXW,KAAWW,O;MACtB,WAAAW,iBF17FJ,MAAO,KE07FgB,mCAAwB,EAAAAxB,CF17FhB,EE07F6C,SF17
F7C,CE07FH,C;MACX,QAAAQ,C;MACQ,2B;QAAhB,OAAAgB,qBAAAhB,C;QAAgB,yB;QACZ,IAAI,KAAAK,SAAT,C;
QUAAoB,K;QACpB,IAAAK,IAAAK,WAAhBqB,GAgBP,OAhBO,EAAAnB,KAAAnB,QAAAtB,IAAAK,SAAAhBF,CAA
AgBrB,C;;MAhBT,OAAkBO,I;K;+EAfX,yB;MAAA,kF;MAAA,gE;MFv7FA,i

B;MEu7FA,8C;QAWoB,UAEsB,M;QALtC,gBAAgB,KAAM,O;QACtB,WAAW,eF17FJ,MAAO,KE07FgB,mCA
AwB,EAAxB,CF17FhB,EE07F6C,SF17F7C,CE07FH,C;QACX,QAAQ,C;QACQ,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,OAAV,EAAmB,MAAM,UAA
N,EAAM,kBAAN,SAAnB,CAAJ,C;;QAET,OAAO,I;O;KAfX,C;IAkBA,kC;MAkBI,YAAY,oB;MACZ,aAZW,KA
YQ,W;MACnB,WAAW,iBFv9FJ,MAAO,KEu9FgB,mCAAwB,EAAxB,CFv9FhB,EEu9FmD,wBAbtD,KAasD,EA
AwB,EAAxB,CFv9FnD,CEu9FH,C;MACX,OAAO,KAAM,UAAN,IAAmB,MAAO,UAAjC,C;QACI,IAAK,WAAfq
B,GAeP,KAAM,OAfC,EAeO,MAAO,OAfd,CAerB,C;;MAfT,OAiBO,I;K;+EAdX,yB;MAAA,kF;MAAA,gE;MFn
9FA,iB;MEm9FA,8C;QAQI,YAAY,oB;QACZ,aAAa,KAAM,W;QACnB,WAAW,eFv9FJ,MAAO,KEu9FgB,mCA
AwB,EAAxB,CFv9FhB,EEu9FmD,wBAAN,KAAM,EAAwB,EAAxB,CFv9FnD,CEu9FH,C;QACX,OAAO,KAA
M,UAAN,IAAmB,MAAO,UAAjC,C;UACI,IAAK,WAAI,UAAU,KAAM,OAAhB,EAAwB,MAAO,OAA/B,CAAJ
,C;;QAET,OAAO,I;O;KAdX,C;IAiBA,gC;MASW,sB;;QAaP,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAy
B,qBAAO,W;UAAP,uB;;QACzB,ad/pGoD,gB;QcgqGpD,cAAc,QAAS,O;QACvB,OAAO,QAAS,UAAhB,C;UACI
,WAAW,QAAS,O;UACpB,MAAO,WAnBkB,GAmBJ,OAnBI,EAmBK,IAnBL,CAmBlB,C;UACP,UAAU,I;;QAE
d,qBAAO,M;;;MAtBP,yB;K;8FAGJ,yB;MAAA,qD;MdzpGA,+D;McypGA,uC;QAUI,eAAe,oB;QACf,IAAI,CAA
C,QAAS,UAAd,C;UAAyB,qBAAO,W;UAChC,ad/pGoD,gB;QcgqGpD,cAAc,QAAS,O;QACvB,OAAO,QAAS,UA
AhB,C;UACI,WAAW,QAAS,O;UACpB,MAAO,WAAI,UAAU,OAAV,EAAmB,IAAnB,CAAJ,C;UACP,UAAU,I;
;QAEd,OAAO,M;O;KAnBX,C;IAsBA,8F;MAQ6D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;
QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MAGtN
,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ
,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IAAa,SAAS,KAA1B,C;U
ACW,gBAAP,MAAO,EAAc,OAAd,EAAuB,SAAvB,C;;UACJ,K;;MAEX,IAAI,SAAS,CAAT,IAAc,QAAQ,KAA1
B,C;QAAiC,MAAO,gBAAO,SAAP,C;MACxC,MAAO,gBAAO,OAAP,C;MACP,OAAO,M;K;IAGX,4F;MAQwC
,yB;QAAA,YAA0B,I;MAAM,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MA
AI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MACjN,OAAO,oBAAO,sBAAP,EAAwB,SAAxB,EAAmC
,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;K;4FAG5F,qB;MAKI,OA
AO,S;K;IASS,8C;MAAA,mB;QAAE,OAAA,eAAK,W;O;K;IAN3B,iC;MAMI,oCAAgB,8BAAhB,C;K;IAGJ,+B;
MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OA
AO,O;O;QACP,oBAAmB,qBAAnB,EAAmB,KAANB,E;;MAEJ,OAAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GA
AgC,MAAM,K;K;K;IAGjD,+B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAA
hB,C;QAAgB,yB;QACZ,OAAO,O;O;QACP,oBAAmB,qBAAnB,EAAmB,KAANB,E;;MAEJ,OAAOW,UAAS,CAAb,
GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;K;IAGjD,+B;MAOoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MA
CD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;O;QACP,oBAAmB,qBAAnB,EAAmB,KAANB,E;;
MAEJ,OAAOW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;K;IAGjD,+B;MAOoB,Q;MAFhB,UAA
kB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;O;QACP,oBAAmB,q
BAAnB,EAAmB,KAANB,E;;MAEJ,OAAOW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;K;IAGjD,2
B;MAMoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,YAAO,O;;MAEX,OAA
O,G;K;IAGX,2B;MAMoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,YAAO
,OAAP,I;;MAEJ,OAAO,G;K;IAGX,2B;MAMoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB
;QACZ,OAAO,YAAO,OAAP,I;;MAEJ,OAAO,G;K;IAGX,2B;MAMoB,Q;MADhB,UAAe,Y;MACC,2B;MAAhB,OAAgB,c
AAhB,C;QAAgB,yB;QACZ,cAAO,OAAP,C;;MAEJ,OAAO,O;O;;MAEX,OAAO,G;K;IAGX,2B;MAMoB,Q;MADhB,UA
Ae,Y;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,cAAO,OAAP,I;;MAEJ,OAAO,O;O;;MAEX,OAAO,G;K;I
Gn1GX,uC;MAOI,OAAO,SAAM,CAAN,EAAS,SAAM,C
AAN,EAAS,CAAT,EAAAY,UAAZ,CAAT,EAAkC,UAAlC,C;K;IGAGX,oC;MAOI,OAAW,UAAAW,SAAAQ,CAAR,E

AAW,CAAX,CAAX,IAA4B,CAAhC,GAAmC,CAAnC,GAA0C,C;K;IAmDrD,wC;MAQc,Q;MADV,UAAU,C;M
ACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GA
A6B,CAAjC,C;UAAoC,MAAM,C;;MAC3D,OAAO,G;K;IA+GX,uC;MAOI,OAAO,SAAM,CAAN,EAAS,SAAM,
CAAN,EAAS,CAAT,EAAY,UAAZ,CAAT,EAAkC,UAAlC,C;K;IAGX,oC;MAOI,OAAW,UAAW,SAAQ,CAAR,
EAAW,CAAX,CAAX,IAA4B,CAAhC,GAAmC,CAAnC,GAA0C,C;K;IAmDrD,wC;MAQc,Q;MADV,UAAU,C;
MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,G
AA6B,CAAjC,C;UAAoC,MAAM,C;;MAC3D,OAAO,G;K;oGCnXX,yB;MAAA,iE;MAAA,uC;QASW,Q;QAAA,
+B;;UAYS,U;UAAA,SjB4UoE,iBAAQ,W;UiB5U5F,OAAgB,gBAAhB,C;YAAgB,2B;YACZ,aAbwB,SAaX,CAA
U,OAAV,C;YACb,IAAI,cAAJ,C;cACI,8BAAO,M;cAAP,gC;;;UAGR,8BAAO,I;;;QAlBA,kC;QAAA,iB;;UAAmC,
MAAM,gCAAuB,4DAAvB,C;;QAAhD,OAAO,I;O;KATX,C;gHAYA,gC;MASoB,Q;MAAA,OAAA,SjB4UoE,Q
AAQ,W;MiB5U5F,OAAgB,cAAhB,C;QAAgB,yB;QACZ,aAAa,UAAU,OAAV,C;QACb,IAAI,cAAJ,C;UACI,OA
AO,M;;;MAGf,OAAO,I;K;IAGX,6B;MAII,IAAI,mBAAQ,CAAZ,C;QACI,OAAO,W;MACX,eAAe,iBAAQ,W;M
ACvB,IAAI,CAAC,QAAS,UAAd,C;QACI,OAAO,W;MACX,YAAY,QAAS,O;MACrB,IAAI,CAAC,QAAS,UAA
d,C;QACI,OAAO,OjB8PiD,SiB9P1C,KjB8P+C,IAAL,EiB9P1C,KjB8PoD,MAAV,CiB9PjD,C;;MACX,aAAa,iBA
AsB,cAAtB,C;MACb,MAAO,WjB4PqD,SiB5PjD,KjB4PsD,IAAL,EiB5PjD,KjB4P2D,MAAV,CiB5PrD,C;;QAEw
B,kBAAhB,QAAS,O;QAApB,MAAO,WjB0PiD,SAAK,eAAL,EAAU,iBAAV,CiB1PjD,C;;MACO,QAAT,QAAS,
W;MAClB,OAAO,M;K;uFAGX,yB;MAAA,+D;MAsBA,gD;MAtBA,uC;QAMW,kBAAU,gB;QAoBD,Q;QAAA,
OjBqRoE,iBAAQ,W;QiBrR5F,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WArB6B,SAqBlB,CAAU,OAAV,C;UACb,
IAAI,WArB6B,SAqBlB,YAAW,EAAAO,IAAP,C;;QAtBhB,OAAwB,OAAxB,W;O;KA9BX,C;;QAtBhB,OAAwB,O

T,QAAS,W;QAClB,qBAAO,O;;;MI/oDP,yB;K;mFAGJ,yB;MJ+oDA,sE;MF/yDA,iB;MMgKA,sC;QJ4pDI,eI/oDO,
iBJ+oDQ,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eIjpDqB,QJipDN,CAAS,QAAS,OA
AlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QInpDiB,QJmpDT,CAAS,QAAS,OAAlB,C;UACR,WFzzDG,MAA
O,KEyzDO,QFzzDP,EEyzDiB,CFzzDjB,C;;QMqKd,OJspDO,Q;O;KInqDX,C;mFAgBA,yB;MJspDA,sE;MFj1DA,
iB;MM2LA,sC;QJmqDI,eItpDO,iBJspDQ,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eIx
pDqB,QJwpDN,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QI1pDiB,QJ0pDT,CAAS,QAAS,
OAAlB,C;UACR,WF31DG,MAAO,KE21DO,QF31DP,EE21DiB,CF31DjB,C;;QMgMd,OJ6pDO,Q;O;KI1qDX,C;
mFAgBA,yB;MJ6pDA,sE;MI7pDA,sC;QJwqDI,eI7pDO,iBJ6pDQ,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB
,MAAM,6B;QAC/B,eI/pDqB,QJ+pDN,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIjqDiB,Q
JiqDT,CAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QInqDnB,OJsqDO,Q;O;
KIjrDX,C;+FAcA,yB;MN9MA,iB;MM8MA,sC;QAWmB,kBAAR,iB;QAAQ,sB;;UJsqDf,eAAe,sB;UACf,IAAI,C
AAC,QAAS,UAAd,C;YAAyB,qBAAO,I;YAAP,uB;;UACzB,eIxqD2B,QJwqDZ,CAAS,QAAS,OAAlB,C;UACf,O
AAO,QAAS,UAAhB,C;YACI,QI1qDuB,QJ0qDf,CAAS,QAAS,OAAlB,C;YACR,WF53DG,MAAO,KE43DO,QF5
3DP,EE43DiB,CF53DjB,C;;UE83Dd,qBAAO,Q;;;QI7qDP,yB;O;KAXJ,C;+FAcA,yB;MNvOA,iB;MMuOA,sC;QA
WmB,kBAAR,iB;QAAQ,sB;;UJ6qDf,eAAe,sB;UACf,IAAI,CAAC,QAAS,UAAd,C;YAAyB,qBAAO,I;YAAP,uB;
;UACzB,eI/qD2B,QJ+qDZ,CAAS,QAAS,OAAlB,C;UACf,OAAO,QAAS,UAAhB,C;YACI,QIjrDuB,QJirDf,CAA
S,QAAS,OAAlB,C;YACR,WF55DG,MAAO,KE45DO,QF55DP,EE45DiB,CF55DjB,C;;UE85Dd,qBAAO,Q;;;QIpr
DP,yB;O;KAXJ,C;+FAcA,+B;MASmB,kBAAR,iB;MAAQ,sB;;QJorDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAA
d,C;UAAyB,qBAAO,I;UAAP,uB;;QACzB,eItrD2B,QJsrDZ,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAh
B,C;UACI,QIxrDuB,QJwrDf,CAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;Q
AGnB,qBAAO,Q;;;MI7rDP,yB;K;0FAGJ,yB;MJ6rDA,sE;MI7rDA,kD;QJwsDI,eI7rDO,iBJ6rDQ,W;QACf,IAAI,C
AAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eI/rDqB,QJ+rDtB,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAA
S,UAAhB,C;UACI,QIjsDiC,QJisDzB,CAAS,QAAS,OAAlB,C;UACR,IIlsDqB,UJksDN,SAAQ,QAAR,EAAkB,C
AAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QInsDnB,OJssDO,Q;O;KIjtDX,C;sGAcA,2C;MASmB,kBAA
R,iB;MAAQ,0B;;QJssDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,I;UAAP,2B;;QACzB,eIx
sD2C,QJwsD5B,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QI1sDuC,QJ0sD/B,CAAS,QAAS,
OAAlB,C;UACR,II3sDqB,UJ2sDZ,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;
QAGnB,yBAAO,Q;;;MI/sDP,6B;K;sFAGJ,yB;MAOA,8D;MAPA,wC;QAII,OASe,cAAR,iBAAQ,EATM,UASN,C
;O;KAbnB,C;kGAOA,yB;MAAA,8D;MAAA,wC;QAMI,OAAe,cAAR,iBAAQ,EAAc,UAAd,C;O;KANnB,C;kFA
SA,+B;MAcmB,kBAAR,iB;MAAQ,sB;;QJwxDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;
UAAP,uB;;QACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,O;UAAP,uB;;QACzB
,eIvyDmB,QJuyDJ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QI1yDe,QJ0yDP,CAAS,CAAT,C;UACR,IA
AI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAED,QAAT,QAAS,W;QAClB,qBAAO,O;;;M
IhzDP,yB;K;8FAGJ,+B;MAQmB,kBAAR,iB;MAAQ,sB;;QJwxDf,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAd,C;U
AAyB,qBAAO,I;UAAP,uB;;QACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,O;U
AAP,uB;;QACzB,eI5xD2B,QJ4xDZ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QI/xDe,QJ+xDf,CAAS,C
AAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAED,QAAT,QAAS,W;QAC
lB,qBAAO,O;;;MIryDP,yB;K;mFAGJ,yB;MJqyDA,sE;MFl4DA,iB;MM6FA,sC;QJkzDI,eIryDO,iBJqyDQ,W;QAC
f,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eIvyDqB,QJuyDN,CAAS,QAAS,OAAlB,C;QACf,OA
AO,QAAS,UAAhB,C;UACI,QIzyDiB,QJyyDT,CAAS,QAAS,OAAlB,C;UACR,WF54DG,MAAO,KE44DO,QF54
DP,EE44DiB,CF54DjB,C;;QMkGd,OJ4yDO,Q;O;KIzzDX,C;mFAgBA,yB;MJ4yDA,sE;MFp6DA,iB;MMwHA,sC;
QJyzDI,eI5yDO,iBJ4yDQ,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eI9yDqB,QJ8yDN,
CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIhzDiB,QJgzDT,CAAS,QAAS,OAAlB,C;UACR
,WF96DG,MAAO,KE86DO,QF96DP,EE86DiB,CF96DjB,C;;QM6Hd,OJmzDO,Q;O;KIh0DX,C;mFAgBA,yB;MJ
mzDA,sE;MInzDA,sC;QJ8zDI,eInzDO,iBJmzDQ,W;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QA
C/B,eIrzDqB,QJqzDN,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIvzDiB,QJuzDT,CAAS,Q
AAS,OAAlB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QIzzDnB,OJ4zDO,Q;O;KIv0DX,C;+FA
cA,yB;MN3IA,iB;MM2IA,sC;QAWmB,kBAAR,iB;QAAQ,sB;;UJ4zDf,eAAe,sB;UACf,IAAI,CAAC,QAAS,UAA

d,C;YAAyB,qBAAO,I;YAAP,uB;;UACzB,eI9zD2B,QJ8zDZ,CAAS,QAAS,OAAlB,C;UACf,OAAO,QAAS,UAA
hB,C;YACI,QIh0DuB,QJg0Df,CAAS,QAAS,OAAlB,C;YACR,WF/8DG,MAAO,KE+8DO,QF/8DP,EE+8DiB,CF/
8DjB,C;;UEi9Dd,qBAAO,Q;;;QIn0DP,yB;O;KAXJ,C;+FAcA,yB;MNpKA,iB;MMoKA,sC;QAWmB,kBAAR,iB;Q
AAQ,sB;;UJm0Df,eAAe,sB;UACf,IAAI,CAAC,QAAS,UAAd,C;YAAyB,qBAAO,I;YAAP,uB;;UACzB,eIr0D2B,
QJq0DZ,CAAS,QAAS,OAAlB,C;UACf,OAAO,QAAS,UAAhB,C;YACI,QIv0DuB,QJu0Df,CAAS,QAAS,OAAlB,
C;YACR,WF/+DG,MAAO,KE++DO,QF/+DP,EE++DiB,CF/+DjB,C;;UEi/Dd,qBAAO,Q;;;QI10DP,yB;O;KAXJ,C
;+FAcA,+B;MASmB,kBAAR,iB;MAAQ,sB;;QJ00Df,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBA
AO,I;UAAP,uB;;QACzB,eI50D2B,QJ40DZ,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QI90
DuB,QJ80Df,CAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,qBAAO,
Q;;;MIn1DP,yB;K;0FAGJ,yB;MJm1DA,sE;MIn1DA,kD;QJ81DI,eIn1DO,iBJm1DQ,W;QACf,IAAI,CAAC,QAAS,
UAAd,C;UAAyB,MAAM,6B;QAC/B,eIr1DqC,QJq1DtB,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C
;UACI,QIv1DiC,QJu1DzB,CAAS,QAAS,OAAlB,C;UACR,IIx1DqB,UJw1DN,SAAQ,QAAR,EAAkB,CAAlB,CA
AX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QIz1DnB,OJ41DO,Q;O;KIv2DX,C;sGAcA,2C;MASmB,kBAAR,iB;M
AAQ,0B;;QJ41Df,eAAe,sB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,yBAAO,I;UAAP,2B;;QACzB,eI91D2C,
QJ81D5B,CAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QIh2DuC,QJg2D/B,CAAS,QAAS,OAA
lB,C;UACR,IIj2D2B,UJi2DZ,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGn
B,yBAAO,Q;;;MIr2DP,6B;K;IAGJ,0C;MAGI,OASe,gBAAR,iBAAQ,EATM,UASN,C;K;kGANnB,yB;MAAA,8D;
MAAA,wC;QAMI,OAAe,cAAR,iBAAQ,EAAc,UAAd,C;O;KANnB,C;IASA,4B;MAMI,OAAO,mB;K;iFAGX,gC;
MAOoB,Q;MADhB,IAAI,mBAAJ,C;QAAe,OAAO,I;MACN,OAAA,SjBnJoE,QAAQ,W;MiBmJ5F,OAAgB,cAAh
B,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;oFAGX,6B;MAK
mC,Q;MAAA,OjB5JqD,iBAAQ,W;MiB4J7E,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,g
B;K;kGAGJ,yB;MAAA,6B;MAAA,sC;MJwyCA,wE;MIxyCA,2BAQiB,yB;QJgyCjB,wE;eIhyCiB,0B;UAAA,4B;
YAAU,kBAAR,iB;YAAQ,aAAe,c;YJuyCzB,gB;YADb,YAAY,C;YACC,6B;YAAb,OAAa,cAAb,C;YAAa,sB;
M,OAAO,oBAAmB,cAAnB,EAAmB,sBAAnB,UAAP,EAAoC,IAApC,C;;YIvyC2B,W;W;S;OAAjC,C;MARjB,oC
;QJ+yCiB,gB;QADb,YAAY,C;QACC,OIvyCE,iBJuyCF,W;QAAb,OAAa,cAAb,C;QAAa,sB;UAAM,OAAO,oBA
AmB,cAAnB,EAAmB,sBAAnB,UAAP,EAAoC,IAApC,C;;QIvyCnB,gB;O;KARJ,C;4FAWA,qB;MAKI,OAAO,iB
;K;IAGX,iC;MAII,OAAe,aAAR,iBAAQ,C;K;IC9hBnB,kC;MAEI,gBCmE2D,8BAAY,c;MDlEvE,IAAI,SAAU,OA
AV,GAAmB,CAAvB,C;QACW,Q;QAAA,IAAI,cAAAQ,GAAAZ,C;UAAA,OAAsB,S;;uBAAe,qBAAU,CAAV,C;UA
AA,YAAe,SEiNc,WFjNM,CEiNN,CAff,c;UFUflMnD,OG8MoD,2BAAL,GAAkB,K;;QH9MxE,W;;MAEJ,OAAuB,o
BAAhB,wBAAAgB,C;K;gFxBD3B,yB;MAAA,mC;MAAA,2C;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KAR
X,C;gFAWA,yB;MAAA,mC;MAAA,2C;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;gFAWA,yB;MA
AA,mC;MAAA,2C;MAAA,4B;QAQI,OAAO,kBAAO,cAAP,C;O;KARX,C;IAWA,sC;;QAQQ,OAAc,QAAP,MA
AO,EAAQ,SAAR,C;;QAChB,+C;UAACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;IAOJ,sC;;QAQQ,OA
Ac,SAAP,MAAO,EAAS,SAAT,C;;QAChB,+C;UAACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;IAOJ,sC
;;QAQQ,OAAiD,OAAA1C,MAAO,iBAAQ,e4BtCgB,I5BsCxB,EAAoB,CAAA,c4BtCI,I5BsCJ,IAAY,CAAZ,IAAp
B,CAAmC,C;;QAChB,+C;UAACnD,+C;UAACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;4FAOJ,yB;MAAA,mC;MAA
A,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;4FAUA,yB;MAAA,mC;MAAA,uD;MAAA,4B;QA
OI,OAAO,wBAAa,cAAb,C;O;KAPX,C;4FAUA,yB;MAAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cA
Ab,C;O;KAPX,C;IAUA,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,QAAP,MAAO,EAAQ,SAAR,
C;K;IAGlB,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,SAAP,MAAO,EAAS,SAAT,C;K;IAGlB,4C
;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAiD,OAAA1C,e4BxGoB,I5BwGpB,EAAoB,C
AAA,c4BxGQ,I5BwGR,IAAY,CAAZ,IAApB,CAAmC,C;;K;mFAGrD,8B;MAQI,OAAO,mBAAmB,2BAAS,OAA
T,C;;K;oFAG9B,8B;MAQI,OAAO,mBAAmB,2BAAS,OAAT,C;;K;oFAG9B,8B;MAQI,OAAO,mBAAmB,2BAAS,
OAAT,C;;K;IAG9B,uC;MAKI,OAAO,2BAAe,KAAf,C;;K;IAGX,uC;MAKI,OAAO,2BAAe,oBAAN,KAAM,CAAf,
C;;K;IAGX,uC;MAKI,OAAO,2BAAe,KAAf,C;;K;IAGX,uC;MAKI,OAAO,2BAAe,KAAf,C;;K;MgBzHW,ShBgIM,
mBAAN,KAAM,C;MAAb,OAA0C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;K;IAG5E,uC;MgBnIW,S
BAAS,EAAT,CAAhB,GAAkC,K;K;K;IAG7E,uC;MgB7IW,ShB7IM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GA

AgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgBvJW,ShB8JM,qBAAN,KAAM,C;MAAb,OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG9E,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MgBzKW,ShBgLM,mBAAN,KAAM,C;MAAb,OAA0C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG5E,uC;MgBnLW,ShB0LM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgB7LW,ShBoMM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgBvMW,ShB8MM,qBAAN,KAAM,C;MAAb,OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG9E,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAe,oBAAN,KAAM,CAAf,C;K;IAGX,uC;MgBjOW,ShBsOM,kBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgBzOW,ShB8OM,mBAAN,KAAM,C;MAAb,OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG9E,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MgBrQW,ShB0QM,iBAAN,KAAM,C;MAAb,OAA0C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG5E,uC;MgB7QW,ShBkRM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MgBrRW,ShB0RM,qBAAN,KAAM,C;MAAb,OAA4C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG9E,uC;MAOI,OAAO,2BAAS,KAAM,WAAf,C;K;IAGX,uC;MAOI,OAAO,2BAAS,KAAM,WAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAKI,OAAO,2BAAe,oBAAN,KAAM,CAAf,C;K;IAGX,uC;MgBjUW,ShBsUM,oBAAN,KAAM,C;MAAb,OAA2C,UAAJ,GAAgB,2BAAS,EAAT,CAAhB,GAAkC,K;K;IAG7E,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,uC;MAOI,OAAO,2BAAe,KAAf,C;K;IAGX,+B;MAOI,OAAO,sBAAe,yBAAgB,SAAhB,EAAyB,EAAzB,EAAkC,EAAlC,C,C;K;IAG1B,iC;MAOI,OAAO,uBAAgB,yBAAgB,SAAhB,EAAyB,oBAAH,EAAG,CAAzB,M;K;IAG3B,iC;MAOI,OAAO,sBAAe,yBAAqB,SAArB,EAAiC,EAAjC,C,EAAjC,C,EAA0C,EAA1C,C;K;IAG1B,iC;MAOI,OAAO,sBAAe,yBAAqB,SAArB,EAAiC,EAAjC,C,EAAjC,C,EAA0C,EAA1C,C;K;IAG1B,iC;MAOI,OAAO,uBAAgB,yBAAgB,SAAhB,EAAyB,EAAzB,EAAkC,EAAlC,EAA0B,EAA1B,EAA0C,EAA1C,C,C;K;IAG3B,iC;MAOI,OAAO,sBAAe,yBAAgB,SAAhB,EAAyB,EAAzB,EAAkC,EAAlC,EAA0B,EAA1B,EAA0C,EAA1C,C,C;K;IAG1B,iC;MAOI,OAAO,uBAAgB,yBAAgB,SAAhB,EAAyB,oBAAH,EAAG,CAAzB,M;K;IAG3B,iC;MAOI,OAAO,sBAAe,yBAAqB,SAArB,EAAiC,EAAjC,EAA0B,EAA9B,C,EAAjC,C,EAA0C,EAA1C,C;K;IAG1B,iC;MAOI,OAAO,sBAAe,yBAAqB,SAArB,EAAiC,EAA9B,EAA0B,EAA9B,C,EAAjC,C,EAA0C,EAA1C,C;K;IAG1B,iC;MAOI,OAAO,uBAAgB,yBAAqB,SAArB,EAAiC,oBAAL,SAAK,CAArB,EAA+B,EAA/B,C,EAA9B,M;K;IAG3B,iC;MAOI,OAAO,uBAAgB,yBAAgB,SAAhB,EAAyB,EAAzB,EAAkC,EAAlC,C,C;K;IAG3B,kC;MAOI,OAAO,uBAAgB,yBAAqB,SAArB,EAAiC,oBAAL,SAAK,CAArB,C,C;K;IAG3B,kC;MAOI,OAAO,uBAAgB,yBAAqB,SAArB,EAAiC,oBAAL,SAAK,CAArB,EAA+B,EAA/B,C,C;K;IAG3B,kC;MAOI,OAAO,uBAAgB,yBAAqB,SAArB,EAAiC,oBAAL,SAAK,CAArB,EAA+B,EAA/B,C,C;K;IAG3B,kC;MAOI,OAAO,sBAAe,yBAAgB,SAAhB,EAAyB,EAAzB,EAAkC,EAAlC,C,C;K;IAG1B,kC;MAOI,OAAO,uBAAgB,yBAAgB,SAAhB,EAAyB,EAAzB,EAAkC,oBAAH,EAAG,CAAlC,M;K;IAG3B,kC;MAOI,OAAO,sBAAe,yBAAqB,SAArB,EAAiC,EAAjC,EAA0B,EAA9B,C,EAAjC,C,EAA0C,EAA1C,C;K;IAG1B,kC;MAOI,OAAO,sBAAe,yBAAqB,SAArB,EAAiC,EAA9B,EAA0B,EAA9B,C,EAAjC,C,EAA0C,EAA1C,C;K;IAG1B,+B;MAII,OAAO,uBAAgB,yBAAgB,SAAhB,EAAyB,cAAhB,EAAsB,eAAtB,EAAsC,EAAtC,C,C;K;IAG3B,gC;MAII,OAAO,uBAAgB,yBAAgB,SAAhB,EAAyB,cAAhB,EAAsB,eAAtB,EAAsC,EAAtC,C,C;K;IAG3B,gC;MAII,OAAO,uBAAgB,yBAAgB,SAAhB,EAAyB,cAAhB,EAAsB,eAAtB,EAAsC,EAAtC,C,C;K;IAG3B,+B;MAII,oBAAoB,OAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,sBAAe,yBAAgB,eAAhB,EAAuB,cAAvB,EAAsC,EAAiC,SAAK,KAAL,GAAAY,GAAA,CAAAZ,CAAA,IAAAD,CAAA,IAAAC,CAAA,EAAjC,IAAAD,CAAA,C,C;K;IAG1B,iC;MAII,oBAAoB,kBAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,uBAAgB,yBAAgB,eAAhB,EAAuB,cAAvB,EAAsC,EAAiC,SAAK,KAAL,GAAAY,GAAA,CAAAZ,CAAA,IAAAD,CAAA,IAAAC,CAAA,EAAjC,IAAAD,CAAA,M;K;IAG3B,iC;MAII,oBAAoB,OAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,uBAAgB,yBAAgB,eAAhB,EAAuB,cAAvB,EAAsC,EAAiC,SAAK,KAAL,GAAAY,GAAA,CAAAZ,CAAA,IAAAD,CAAA,IAAAC,CAAA,EAAjC,IAAAD,CAAA,C,C;K;IAG3B,sC;MACI,OAAAmB,OAAAmB,IAAAR,8BAAA,GAAAgC,GAAApC,C,EAAAiE,E,OAAAL,SAAA,KAAA,CAAAjE,GAAA,E,I;K;IAG1B,wC;MACI,OAAAmE,OAAAW,mEAAA,GAAAnE,GAAApB,C,EAAAwF,S,KAAAjE,OAAAW,YAAA,mEAAAvB,SAAA,KAAAnB,EAAA,I;K;IAG5F,wC;MACI,OAAAmE,OAAAW,YAAAQ,aAAA,mEAAAvB,SAAAiE,UAAA,GAAAnE,GAAApB,C,EAAAwF,S,KAAA8F,QAAA,mEAAA,CAAAxH,SAAA,KAAA0C,CAAA,E,EAAAlE,OAAA0C,CAAA,I;K;IAGqD,wC;MACI,OAAAmE,OAAAmB,UAAAc,WAAA,mEAAAd,SAAA2C,MAAA,mEAAAvB,SAAA,KAAAnB,EAAA,E,EAAAmC,SAAA1C,CAAA,mEAAAN,SAAA,KAAA0C,EAAA,C,EAAAmB,S,KAAAxC,OAAAmB,UAAAc,WAAA,mEAAAhG,SAAA,KAAA0C,CAAA,I;K;IAG5F,wC;MACI,OAAAmE,OAAA8F,QAAAnH,iBAAA,mEAAAX,SAAA,MAAA0C,CAAA,C,EAAAmC,S,OAAA7D,OAAA,mEAAA0B,SAAA,MAAA0C,CAAA,C,EAAA+E,S,KAAA5F,OAAAmB,UAAAc,WAAA,mEAAAhG,SAAA,KAAA0C,CAAA,I;K;IAG5F,wC;MACI,OAAAmE,OAAAmB,UAAAc,WAAA,mEAAAhG,SAAAiE,MAAA,mEAAAjE,SAAA,KAAAnB,EAAA,E,EAAAmC,SAAA1C,CAAA,mEAAAN,SAAA,KAAA0C,EAAA,C,EAAAmB,S,KAAAxC,OAAAmB,UAAAc,WAAA,mEAAAhG,SAAA,KAAA0C,CAAA,I;K;IAGuC,sC;MACI,OAAAmE,OAAA8F,mEAAA,GAAAnE,GAAA4D,SAAA,mEAAAhG,SAAA,MAAA0C,CAAA,C,EAAA+E,S,IAAAzH,OAAA,mEAAA0B,SAAA,QAAA0C,CAAA,C,EAAA+E,S,KAAA5F,OAAAmB,UAAAc,WAAA,mEAAAhG,SAAA,KAAA0C,CAAA,I;K;IAG5F,sC;MACI,OAAAmE,OAAAmB,UAAAc,WAAA,mEAAAhG,SAAAiE,MAAA,mEAAAjE,SAAA,KAAAnB,EAAA,E,EAAAmC,SAAA1C,CAAA,mEAAAN,SAAA,KAAA0C,EAAA,C,EAAAmB,S,KAAAxC,OAAAmB,UAAAc,WAAA,mEAAAhG,SAAA,KAAA0C,CAAA,I;K;IAG5F,sC;MACI,OAAAmE,OAAAmB,UAAAe,WAAA,mEAAAhG,SAAA,MAAA0C,CAAA,C,EAAAmB,S,KAAA8F,QAAA,mEAAA,CAAA3H,SAAA,KAAA0C,CAAA,E,IAAAlE,OAAA,mEAAA,CAAA0B,SAAA,KAAA0C,EAAA,C,EAAA+E,S,IAAAzH,OAAA,mEAAA0B,SAAA,KAAA0C,CAAA,I;K;

mCAAf,EAAyC,mCAAzC,CAAR,4BAAJ,GAAqE,uBAAL,SAAK,CAArE,GAAmF,I;K;IAG9F,uC;MACI,OAAm
B,MAAR,8BAAiC,KAArC,GAAmE,QAAL,SAAK,CAAnE,GAAkF,I;K;IAG7F,yC;MACI,OAAW,uEAAJ,GAAq
E,QAAL,SAAK,SAArE,GAAoF,I;K;IAG/F,yC;MACI,OAAmB,UAAA,uCAAgB,UAAhB,EAA4B,uCAAgB,UAA
5C,CAAR,4BAAJ,GAAiF,QAAR,YAAL,SAAK,CAAQ,CAAjF,GAAgG,I;K;IAG3G,yC;MACI,OAAmB,UAAA,u
CAAgB,UAAhB,EAA2B,uCAAgB,UAA3C,CAAR,4BAAJ,GAA+E,QAAR,YAAL,SAAK,CAAQ,CAA/E,GAA8F
,I;K;IAGzG,8B;MAMI,OAAO,wBAAY,EAAa,GAAH,CAAG,IAAzB,C;K;IAGX,gC;MAMI,OAAO,kBAAY,oBA
AH,EAAG,CAAc,8BAAH,CAAG,EAA1B,C;K;IAGX,gC;MAMI,OAAO,aAAK,SAAL,EAAoB,EAAa,GAAH,CA
AG,IAAjC,C;K;IAGX,gC;MAMI,OAAO,aAAK,SAAL,EAAoB,EAAa,GAAH,CAAG,IAAjC,C;K;IAGX,gC;MA
MI,IAAI,MAAM,CAAV,C;QAAoB,OAAO,iCAAU,M;MACrC,OAAO,yBAAiB,OAAR,EAAQ,GAAH,CAAG,CA
AjB,C;K;IAGX,gC;MAMI,IAAI,MAAM,WAAV,C;QAAyB,OAAO,gCAAS,M;MACzC,OAAO,wBAAS,EAAQ,G
AAH,CAAG,IAAjB,C;K;IAGX,gC;MAMI,OAAO,kBAAY,oBAAH,EAAG,CAAc,8BAAH,CAAG,EAA1B,C;K;I
AGX,gC;MAMI,IAAI,MAAM,WAAV,C;QAAyB,OAAO,gCAAS,M;MACzC,OAAO,aAAK,SAAL,EAAiB,EAA
Q,GAAH,CAAG,IAAzB,C;K;IAGX,gC;MAMI,IAAI,MAAM,WAAV,C;QAAyB,OAAO,gCAAS,M;MACzC,OA
AO,aAAK,SAAL,EAAiB,EAAQ,GAAH,CAAG,IAAzB,C;K;IAGX,gC;MAMI,IAAI,iDAAJ,C;QAA0B,OAAO,iC
AAU,M;MAC3C,OAAY,oBAAL,SAAK,CAAL,SAAkB,EAAQ,8BAAH,CAAG,EAA1B,C;K;IAGX,gC;MAMI,IA
AI,iDAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OAAO,kBAAS,EAAQ,8BAAH,CAAG,EAAjB,C;K;IAGX,iC;M
AMI,IAAI,iDAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OAAY,oBAAL,SAAK,CAAL,SAAkB,EAAQ,8BAAH,C
AAG,EAA1B,C;K;IAGX,iC;MAMI,IAAI,iDAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OAAY,oBAAL,SAAK,C
AAL,SAAkB,EAAQ,8BAAH,CAAG,EAA1B,C;K;IAGX,iC;MAMI,OAAO,wBAAY,EAAa,GAAH,CAAG,IAAzB
,C;K;IAGX,iC;MAMI,OAAO,kBAAY,oBAAH,EAAG,CAAc,8BAAH,CAAG,EAA1B,C;K;IAGX,iC;MAMI,OAA
O,aAAK,SAAL,EAAoB,EAAa,GAAH,CAAG,IAAjC,C;K;IAGX,iC;MAMI,OAAO,aAAK,SAAL,EAAoB,EAAa,
GAAH,CAAG,IAAjC,C;K;IAGX,gD;MAQI,OAAW,4BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,
kD;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAW,YAAO,YAAX,GAAy
B,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI
,OAAW,0BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAQI,OAAW,YAAO,YAAX,GAAyB,
YAAzB,GAA2C,S;K;IAGtD,+C;MAQI,O
AAW,4BAAO,YAAP,KAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAQI,OAAW,YAAO,YAAX,GAAyB,YA
AzB,GAA2C,S;K;IAGtD,iD;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAQI,OAA
W,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAQI,OAAW,0BAAO,YAAP,KAAJ,GAAyB,YAAzB
,GAA2C,S;K;IAGtD,iD;MAQI,OAAW,YAAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAQI,OAAW,Y
AAO,YAAX,GAAyB,YAAzB,GAA2C,S;K;IAGtD,yD;MAQI,IAAI,iBAAiB,IAAjB,IAAyB,iBAAiB,IAA9C,C;Q
ACI,IAAI,+BAAe,YAAf,KAAJ,C;UAAiC,MAAM,gCAAyB,6DAAiD,YAAjD,wCAAoF,YAApF,OAAzB,C;QAC
vC,IAAI,4BAAO,YAAP,KAAJ,C;UAAyB,OAAO,Y;QAChC,IAAI,4BAAO,YAAP,KAAJ,C;UAAyB,OAAO,Y;;Q
AGhC,IAAI,iBAAiB,IAAjB,IAAyB,4BAAO,YAAP,KAA7B,C;UAAkD,OAAO,Y;QACzD,IAAI,iBAAiB,IAAjB,I
AAyB,4BAAO,YAAP,KAA7B,C;UAAkD,OAAO,Y;;MAE7D,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,
C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAA
yB,OAAO,Y;MAChC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAA
e,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YA
AX,C;QAAyB,OAAO,Y;MAChC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,2D;MAQ
I,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,
YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAG
X,2D;MAQI,IAAI,6BAAe,YAAf,KAAJ,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,yCAAoF,iBAAzB,C;MACv
C,IAAI,0BAAO,YAAP,KAAJ,C;QAAyB,OAAO,Y;MAChC,IAAI,0BAAO,YAAP,KAAJ,C;QAAyB,OAAO,Y;MA
AO,Y;MAChC,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8
BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,IAAI,YAAO,YAAX,C;Q
AAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,2D;MAQI,IAAI,eAAe,YAAnB,C;QAAiC,MAAM,gCAAyB,oDAAi
D,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,IAAI,YAAO,YAAX,C;QAAyB,OAAO,Y;MAChC,IAAI,YAAO,
YAAX,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,sC;MAUW,Q;MADP,IAAI,KAAM,UAAV,C;QAAqB,M

AAM,gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAGvB,IAAA,KAAM,0BAAiB,SAAjB,EAAuB,KAAM,MAA7B,
CAAN,IAA6C,CAAC,KAAM,0BAAiB,KAAM,MAAvB,EAA8B,SAA9B,CAApD,C;QAAiG,OAAN,KAAM,M;
WAEjG,IAAA,KAAM,0BAAiB,KAAM,aAAvB,EAAqC,SAArC,CAAN,IAAoD,CAAC,KAAM,0BAAiB,SAAjB,
EAAuB,KAAM,aAA7B,CAA3D,C;QAA+G,OAAN,KAAM,a;;QACvG,gB;MALZ,W;K;IASJ,sC;MAYW,Q;MAJP
,IAAI,8CAAJ,C;QACI,OAAY,WAAL,SAAK,EAAY,KAAZ,C;;MAEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,
gCAAyB,4CAAyC,KAAzC,MAAzB,C;MAEvB,gCAAO,KAAM,MAAb,M;QAA4B,OAAN,KAAM,M;WAC5B,g
CAAO,KAAM,aAAb,M;QAAmC,OAAN,KAAM,a;;QAC3B,gB;MAHZ,W;K;IAOJ,sC;MAYW,Q;MAJP,IAAI,8C
AAJ,C;QACI,OAAY,WAAL,SAAK,EAAc,KAAd,C;;MAEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,
4CAAyC,KAAzC,MAAzB,C;MAEvB,gBAAO,KAAM,MAAb,C;QAA4B,OAAN,KAAM,M;WAC5B,gBAAO,KA
AM,aAAb,C;QAAmC,OAAN,KAAM,a;;QAC3B,gB;MAHZ,W;K;IAOJ,sC;MAYW,Q;MAJP,IAAI,8CAAJ,C;QA
CI,OAAY,WAAL,SAAK,EAAe,KAAf,C;;MAEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,4CAAyC,K
AAzC,MAAzB,C;MAEvB,8BAAO,KAAM,MAAb,M;QAA4B,OAAN,KAAM,M;WAC5B,8BAAO,KAAM,aAAb,
M;QAAmC,OAAN,KAAM,a;;QAC3B,gB;MAHZ,W;K;IW1rCJ,oD;MAMuF,wC;K;IANvF,8CAOI,Y;MAAuC,8B;
K;IAP3C,gF;IkBQA,yC;MAMI,OAAO,sBAAQ,OAAR,KAAoB,C;K;IAWG,2C;MAAA,qB;QAAE,MAAM,8BAA
0B,+CAA4C,aAA5C,MAA1B,C;O;K;IAR1C,uC;MAQI,OAAO,8BAAgB,KAAhB,EAAuB,yBAAvB,C;K;IAGX,4
D;MAcqB,Q;MANjB,IAAI,QAAQ,CAAZ,C;QACI,OAAO,aAAa,KAAAb,C;MACX,eAAe,oB;MACf,YAAY,C;MA
CZ,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,WAAS,YAAT,EAAS,oBAAT,OAAAJ,C;UACI,
OAAO,O;;MAEf,OAAO,aAAa,KAAb,C;K;IAGX,8C;MAcqB,Q;MANjB,IAAI,QAAQ,CAAZ,C;QACI,OAAO,I;M
ACX,eAAe,oB;MACf,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,WAAS,YAAT,
EAAS,oBAAT,OAAAJ,C;UACI,OAAO,I;K;8EAGX,gC;MASW,sB;;QA2FS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IA3FH,SA2FO,CAAU,OAAAV,CAAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;
MA5FP,uB;;;QAC9C,qBAAO,I;;;MADP,uB;K;uFAGJ,gC;MAkOoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAg
B,cAAhB,C;QAAgB,yB;QACZ,IA1Nc,SA0NV,CAAU,OAAAV,C;UAAwB,aAAO,O;;MAA3C,yB;QACI,IAAI,KAAJ,
C;YAAwB,MA3Nf,OA8NO,I;;K;IA3NX,6B;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,MAAM,
2BAAuB,oBAAvB,C;MACV,cAAc,QAAS,O;MACvB,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAA
I,iFAAgpB,yB;MAAA,iE;MAAA,uC;QAOoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,K
AAJ,C;YAAwB,aAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MADP,uB;K;IAGJ,sC;MAkOoB,Q;MADhB,WAAe,I;M
ACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAJ,C;UAAwB,aAAO,O;;MAA3C,yB;QACI,IAAI,
KAAJ,C;YAAwB,MAAM,2BAAuB,oBAAvB,C;MACV,cAAc,QAAS,O;MACvB,OAAO,QAAS,UAAhB,C;QACI,
cAAc,QAAS,O;QACvB,IAAI,iFAAgpB,yB;MAAA,iE;MAAA,uC;QAOoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,
C;UAAgB,yB;UAAM,IAAI,KAAJ,C;YAAwB,aAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MADP,uB;K;IAGJ,sC;MA
kOoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAJ,C;UAAwB,aAAO
,O;;MAA3C,yB;QACI,IAAI,KAAJ,C;YAAwB,MAAM,2BAAuB,oBAAvB,C;MACV,cAAc,QAAS,O;MACvB,OAA
O,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,iFAAgpB,yB;MAAA,iE;MAAA,uC;QOoB,Q;QAAA,2B;QA
AhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,KAAJ,C;YAAwB,aAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MA
DP,uB;K;2FAGX,gC;MASoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAA
gb,yB;QAAgB,yB;QAAM,IAAgB,KAAhB,C;YAAgb,aAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MADP,uB;K;IAGJ
,sC;MASoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAJ,C;UAAw
b,aAAO,O;;MAA3c,yB;QACI,IAAgb,KAAhB,C;YAAgb,MAAM,2BAAuB,oBAAvB,C;MACV,cAAc,QAAS,O;M
ACvB,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,iFAAgpB,yB;MAAA,iE;MAAA,uC;QMASoB
,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,KAAJ,C;YAAwb,aAAO,O;YAAP,uB;;;QAC9
C,qBAAO,I;;;MADP,uB;K;IAGJ,sC;MASoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgb,
yB;QACZ,IAAI,KAAJ,C;UAAwb,aAAO,O;;MAA3c,yB;QACI,IAAI,KAAJ,C;YAAwb,MAAM,2BAAuB,oBAAvB,
C;MACV,cAAc,QAAS,O;QACvB,IAAI,iFAAgpB,yB;MAAA,iE;MAAA,uC;QMASoB,Q;QAAA,2B;QAAhB,OAAg
B,cAAhB,C;UAAgB,yB;UAAM,IAAI,KAAJ,C;YAAwb,aAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MADP,uB;K;2F
AGX,gC;MASoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAgb,KAAhb,C;
UAAgb,aAAO,O;;MAA3c,yB;QACI,IAAI,KAAJ,C;YAAwb,MAAM,2BAAuB,oBAAvB,C;MACV,cAAc,QAAS,O;
MACvB,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,iFAAgpB,yB;MAAA,iE;MAAA,uC;QMASo
B,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,KAAJ,C;YAAwb,aAAO,O;YAAP,uB;;;QAC
9C,qBAAO,I;;;MADP,uB;K;2FAGX,gC;MASoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAA
gb,yB;QACZ,IAAI,KAAJ,C;UAAwb,aAAO,O;;MAA3c,yB;QACI,IAAI,KAAJ,C;YAAwb,MAAM,2BAAuB,oBAA
vB,C;MACV,cAAc,QAAS,O;MACvB,OAAO,QAAS,UAAhB,C;QACI,cAAc,QAAS,O;QACvB,IAAI,iFAAgpb,yb;
MASoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yb;UAAM,IAAI,KAAJ,C;YAAwb,aAAO,O;YAAP,uB;;
;QAC9C,qBAAO,I;;;MADP,uB;K;2FAGX,gC;MASoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;
QAAgb,yB;QACZ,IAAI,KAAJ,C;UAAwb,aAAO,O;;MAA3c,yB;QACI,IAAgX,KAAhX,C;YAAgX,MAAM,2BAAu
b,oBAAvB,C;MACV,cAAc,QAAS,O;QACvB,IAAI,iFAAgpb,yb;MASob,Q;QAAA,2b;QAAhB,OAAgb,cAAhb,C;
UAAgb,yb;UAAM,IAAgb,KAAhX,C;YAAgb,aAAO,O;YAAP,ub;;;QAC9c,qbAAO,I;;;MADb,ub;K;2FAGX,gc;MA
SoB,Q;MADhb,WAAe,I;MACC,2b;MAAhb,OAAgb,cAAhb,C;QAAgb,yb;QACZ,IAAI,KAAJ,C;UAAwb,aAAO,O;
;MAA3c,yb;QACI,IAAI,KAAJ,C;YAAwb,MAAM,2bAAub,obAAvb,C;MACV,cAAc,QAAS,O;QACvb,IAAI,iFAA
gpb,g;C;MASoB,Q;MADhb,WAAe,I;MACC,2b;MAAhb,OAAgb,cAAhb,C;QAAgb,yb;QACZ,IAAI,UAAU,OAA
V,C

AAJ,C;UACI,OAAO,O;;;MAGf,OAAO,I;K;IAGX,8B;MAMI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAC
I,MAAM,2BAAuB,oBAAvB,C;MACV,aAAa,QAAS,O;MACtB,IAAI,QAAS,UAAb,C;QACI,MAAM,gCAAyB,q
CAAzB,C;MACV,OAAO,M;K;mFAGX,yB;MAAA,kF;MAAA,iE;MAAA,gB;MAAA,8B;MAAA,uC;QAQoB,UA
ST,M;QAXP,aAAiB,I;QACjB,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,O
AAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,mDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QA
GhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,sDAAvB,C;QAElB,OAAO,6E;O;KAjBX,C;IAoBA,oC;MA
MI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QACI,OAAO,I;MACX,aAAa,QAAS,O;MACtB,IAAI,QAAS,U
AAb,C;QACI,OAAO,I;MACX,OAAO,M;K;+FAGX,gC;MAQoB,Q;MAFhB,aAAiB,I;MACjB,YAAY,K;MACI,2B
;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAA
O,I;UAClB,SAAS,O;UACT,QAAQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;IAG
X,8B;MAWW,Q;MhBhXP,IAAI,EgB+WI,KAAK,ChB/WT,CAAJ,C;QACI,cgB8Wc,sD;QhB7Wd,MAAM,gCAAy
B,OAAQ,WAAjC,C;;MgB+WN,UAAK,CAAL,C;QAAU,gB;WACV,+C;QAAiC,OAAL,SAAK,cAAK,CAAL,C;;
QACzB,wBAAa,SAAb,EAAmB,CAAnB,C;MAHZ,W;K;IAOJ,2C;MAQI,OAAO,sBAAkB,SAAlB,EAAwB,SAAx
B,C;K;IAGX,wC;MAQI,OAAO,sBAAkB,SAAlB,EAAwB,IAAxB,EAA8B,SAA9B,C;K;IAcqE,iD;MAAA,qB;QA
AE,yBAAU,EAAG,MAAb,EAAoB,EAAG,MAAvB,C;O;K;IAAkC,oC;MAAE,OAAA,EAAG,M;K;IAXzH,+C;M
AWI,OAAO,yBAAqB,sBAAkB,qBAAiB,SAAjB,CAAlB,EAA0C,IAA1C,EAAgD,+BAAhD,CAArB,EAAyG,sBA
AzG,C;K;oGAGX,yB;MA80BA,wE;MA90BA,oD;QAu1BiB,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,
C;UAAa,sB;UACT,IAAI,UAA50BT,IAAI,UA40BkB,oBAAmB,cAAnB,EAAmB,sBAAnB,UA50BlB,EA40B+B+C,IA
50B/C,CAAJ,C;YAA2C,sBA40BBQ,IA50BR,C;;Q40BvB,OAAO,W;O;KAbX,C;sGAgBA,yB;MAAA,8C;MAAA,yB;
MASkB,qD;QAAA,qB;QUAAE,c;S;O;MATpB,sC;QASW,Q;QAAP,OAAO,uCAAP,gC;O;KATX,C;0GAGA,yB;MAAA
A,4C;MAQoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAJ,YAAkB,OAAlB,CA,4C;M
AQoB,Q;QAMAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,eAAJ,C;eAAd,OAAAA,IAAI,eAAgD,
OAAAA,IAAI,eAAgD,OAAAA,IAAIA,sB;K;IAYA,2C;MAQI,OAAO,sBAAkB,SAAlB,EAAwB,CAAxB,C;K;+F
FASJ,yB;MAAA,wE;MAAA,uC;QAaW,kBAAY,oB;QAiFH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,y
B;UACZ,UAWA,WAlFsC,SAAkFvB,CAAAU,OAAAV,C;UUvBnEnB,wBAAAI,IAAAK,MAAAT,EAAAgB,IAAAK,OAAArB,C;;QuBnFA,
OAoFO,W;O;KAjGX,C;6FAgBA,yB;MAAA,wE;MAAA,yC;QAaW,kBAAc,oB;QA8BL,Q;QAAA,2B;QAAhB,O
AAgB,cAAhB,C;UAAgB,yB;UACZ,WAAY,WAAY,aA/B4C,SA/BxB,CAAAY,OAAAZ,CAAJ,EAAAe,IAAAK,CA
AAb,C;;QAAhB,OAoCO,W;O;KAhDX,C;;QAAAlB,ChB,OAoCO,W;O;KAhDX,C;iGAeA,yB;MAAA,+D;MAY
oB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,YAAAI,IAAA,YAAAI,YAAAO,OAAAZ,EA
AAgB,IAAA,YAAAI,IAAA0B,C;;MAEhB,OAAO,W;K;iGAGX,+D;MAYoB,Q;MAAA,2B;MAAhB,OAAgB,cAAh
B,C;QAAgB,yB;QACZ,IAAI,YAAAI,IAAA,YAAAI,YAAAO,OAAAZ,EAAAgB,IAAA,YAAAI,IAAA0B,eA

Ae,OAAf,CAA1B,C;;MAEhB,OAAO,W;K;4FAGX,6C;MAWoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAA
gB,yB;QACZ,WAAe,UAAU,OAAV,C;QvBnEnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;MuBqEA,OA
AO,W;K;gGAGX,yB;MAAA,wE;MAAA,2C;QAcI,aAAa,oB;QAgBG,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;U
AAgB,yB;UAfO,MAgBP,aAAI,OAAJ,EAhBe,aAgBF,CAAc,OAAd,CAAb,C;;QAhBhB,OAAuB,M;O;KAf3B,C;o
GAkBA,iD;MAYoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,WAAY,aAAI,OAAJ,EAAa,cA
Ac,OAAd,CAAb,C;;MAEhB,OAAO,W;K;IAGX,gD;MAMiB,Q;MAAA,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QA
CT,WAAY,WAAI,IAAJ,C;;MAEhB,OAAO,W;K;IAGX,gC;MAMI,OAAO,0BAAa,cAAb,C;K;IAGX,8B;MAMI,O
AA4B,qBAAhB,iBAAL,SAAK,CAAgB,C;K;IAGhC,qC;MAMI,OAAO,0BAAa,gBAAb,C;K;IAGX,4B;MAQI,OA
AwC,oBAAjC,0BAAa,sBAAb,CAAiC,C;K;IAG5C,0C;MAYI,OAAO,uBAAmB,SAAnB,EAAyB,SAAzB,6BAAo
C,qB;;OAApC,E;K;IAGX,0C;MAQI,OAAO,uBAAmB,SAAnB,EAAyB,SAAzB,6BAAoC,qB;;OAApC,E;K;IAGX
,iD;MAaI,OAAO,kBAAe,SAAf,EAAqB,SAArB,6BAAgC,qB;;OAAhC,E;K;IAGX,iD;MAaI,OAAO,kBAAe,SAAf
,EAAqB,SAArB,6BAAgC,qB;;OAAhC,E;K;sGAGX,yB;MAAA,wE;MAAA,gD;MAAA,oD;QAaoB,UAC4B,M;Q
AF5C,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,oBAAAmB,cAAnB,EAA
mB,sBAAnB,UAAV,EAAuC,OAAvC,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAjBX,C;u
GAoBA,yB;MAAA,wE;MAAA,gD;MAAA,oD;QAaoB,UAC4B,M;QAF5C,YAAY,C;QACI,2B;QAAhB,OAAgB,
cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,oBAAAmB,cAAnB,EAAmB,sBAAnB,UAAV,EAAuC,OAAvC,C;U
ACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAjBX,C;yFAoBA,yB;MAAA,gD;MAAA,oD;QAUo
B,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,E
AAO,IAAP,C;;QAEhB,OAAO,W;O;KAdX,C;yFAiBA,yB;MAAA,gD;MAAA,oD;QAMoB,Q;QAAA,2B;QAAhB,
OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;Q
AEhB,OAAO,W;O;KAVX,C;yFAoBA,yB;MAAA,gD;MAAA,oD;QAUoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,
C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KA
VX,C;qFAaA,yB;MAAA,wE;MA6BA,+D;MA7BA,yC;QAWW,kBAAU,oB;QA6BD,Q;QAAA,2B;QAAhB,OAAgb,
cAAhB,C;UAAgB,yB;UACZ,UA9BiD,WA8BvC,CAAAY,OAAAZ,C;UvBjoBP,U;UADP,YuBm
oBe,WvBnoBH,WuBmoBwB,GvBnoBxB,C;UACL,IAAI,aAAJ,C;YACH,auBioBuC,gB;YAA5B,WvBhoBX,auBg
oBgC,GvBhoBhC,EAAS,MAAT,C;YACA,iuBiBmoBX,WuBmoBY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAPX,C;
yFAaA,yB;MAAA,wE;MA6BA,+D;MA7BA,yC;QAWW,kBAAU,oB;QA6BD,Q;QAAA,2B;QAAhB,OAAgB,cAAhb,
C;UAAgB,yB;UACZ,UA9BiD,WA8BvC,CAAAY,OAAAZ,C;UvBjoBP,U;UADP,YuBmoBupBe,WvBnoBH,WuBupBwB,
GvBvpBxB,C;UACL,IAAI,aAAJ,C;YACH,auBipBuC,gB;YAA5B,WvBhpBX,auBhppBppX,auBgppBgC,GvBhpBhC,EAAS,MAAT,C;
YACA,iuBipBX,WuBmpBY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAPX,C;uFAaA,yB;MAAA,+D;MAAA,sD;QAW
W,kBAAU,oB;QAAA,+D;QAAA,sD;O;KAXX,C;;QArCT,OAuCO,W;O;KAnDX,C;yFAeA,yB;MAAA,+D;MAAA,sD;QAWI,OAAI,cAA
gB,cAAhB,C;UAAgB,yB;UACZ,UAAU,oBAAAmB,cAAnB,EAAmB,sBAAnB,U;UvBjoBP,U;UADP,YuBmoBe,WvBnoBH,WuBmoBwB
,GvBnoBxB,C;UACL,IAAI,aAAJ,C;YACH,auBioBuC,gB;YAA5B,WvBhoBX,auBhoogC,GvBhoBhC,EAAS,MA
AT,C;YACA,iuBioBX,WuBmoBY,EAAO,IAAP,C;;QAET,OAAO,W;O;KAhBX,C;yFAmBA,y
B;MAAA,+D;MAAA,sE;QAYoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,oBAAAmB,cAAnB,EAAmB,sBAAnB,U;UvBjoBP,U
;UADP,YuBmoBpue,WvBnoBPH,WuBupBwB,GvBnpBxB,C;UACL,IAAI,aAAJ,C;YACH,auBioBuC,gB;YAA5B,WvBhppBX,auBhoogcgC,GvBhppBhC,EAAS,MAAT,C;YACA,iuBipBX,WuBmpBY,EAAO,IAAP,C;;QAET,OAAO,W;O;KAhBX,C;0FAmBA,y
B;MAAA,+D;MAAA,sE;QAYoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,oBAAAmB,cAAnB,EAAmB,sBAAnB,U;UvBjoBP,U
;UADP,Yu;QAAA,8C;O;MAVX,oDAWQ,Y;QAA6C,OAAA,oBAAgB,W;O;MAXrE,iDAYQ,mB;QAAoC,gCAAY,O
AAZ,C;O;MAZ5C,gF;MAAA,yC;QAUI,2D;O;KAVX,gF;MAAA,yC;QAUI,2D;O;IAgBA,sC;MASI,OAAO,yBAAqB,SAArB,EAA2B,SAA3
B,C;K;IAGX,4C;MASI,OAAO,gCAA4B,SAA5B,EAAkC,SAAlC,C;K;IAGX,mD;MAAoD,gBAA7C,gCAA
4B,SAA5B,EAAkC,SAAlC,CAA6C,C;K;;4GAGxD,yB;MAuNA,wE;MAvNA,oD;QAgOiB,gB;QADb,YAAY,C;Q
ACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAVnSB,U;UAAA,wBAAuNsB,U;UAAA,wBAAuNT,oBAAAmB,cAAnB,EAAmb,sBAAnB,UA
vNS,EAuNoB,IAvNpB,W;YAA6C,6B;;;QAChF,OAAAO,W;O;KAVX,C;8FAaA,yB;MAAA,wE;MAAA,oD;QAUiB,gb;QADb,YAAY,C;Q
ACC,2B;QAAb,OAAa,cAAb,C;UAAa,sb;UACT,WAAY,WAAI,UAAU,oBAAAmb,cAAnB,EAAmb,sBAAnb,UAAV,EAAuC,IAAvC,CAAJ,C;;QAChB,OAAO,W;O;KAZX,C;IAeA,4C;MASI,OAA
6C,gBAAtC,yBAAqb,SAArb,EAA2b,SAA3B,CAAsC,C;K;;8FAGjD,yB;MAAA,oD;QAUI,OAAAmb,OAAAgB,cAAAhb,C;UAAgb,yb;UAUrKK,U;UAAA,wBAAqb,K;O;YAAAsC,6b;;;QAC3D,OAAO,W;O;KAmb;;QAC3D,OAAAmb,W;O;KVARX,C;iFAWA,6C;MAOib,Q;MAAA,2b;MAAb,OAAa,cAAb,C;QAAa,sb;QAAAa,sb;QQACTmb,WAAY,WAAI,UAAU,IAAV,C;;MAChB,OAAO,W;K;;MAEhB,OAAO,W;K;;IAGX,gc;MAMI,OAAO,0bbAAa,qbAAib,SAAjb,C;K;K;IAcgb,6b;MAAAE,S;K;IAX7b,+

B;MAWI,OAAY,aAAL,SAAK,EAAW,eAAX,C;K;IAGhB,2C;MAYI,OAAO,qBAAiB,SAAjB,EAAuB,QAAvB,C;
K;IAGX,mC;MASiB,Q;MADb,UAAU,sB;MACG,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,GAAI,WAAI,IAA
J,C;;MACvB,OAAO,G;K;6EAGX,gC;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IA
AI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;IAGX,2B;MAQI,OAAO,oBAAW,U;K
;6EAGtB,gC;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,
C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;IAGX,6B;MAOoB,Q;MADhB,YAAY,C;MACI,2B;MAAhB,OAAgB,c
AAhB,C;QAAgB,yB;QAAM,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MACtB,OAAO,K;K;iFAGX,yB;MAAA,w
E;MAAA,uC;QAOoB,Q;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAA
U,OAAV,CAAJ,C;YAAwB,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;QAC9C,OAAO,K;O;KARX,C;8EAWA,yC;
MAYoB,Q;MADhB,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cAAc,UAAU,WAA
V,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;4FAGX,yB;MAAA,wE;MAAA,gD;QAcoB,UAAiD,M;QAFjE,YAA
Y,C;QACZ,kBAAkB,O;QACF,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,cAAc,UAAU,oBAAmB,cAAn
B,EAAmB,sBAAnB,EAAuB,OAAvB,C;;QAC9C,OAAO,W;O;KAfX,C;qFAkBA,6B;MAMoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;kGAG1B,yB;MAAA,w
E;MAAA,oC;QASiB,UAAgC,M;QAD7C,YAAY,C;QACZ,kB;QAAb,OAAa,cAAb,C;QAAa,sB;QAAM,OAAO,o
BAAmB,cAAnB,EAAmB,sBAAnB,EAAuB,UAAP,EAAoC,IAApC,C;;O;KATvB,C;IAYA,2B;MAII,OAAO,uB;K;IAGX,2
B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;iFAGX,+B;MAGW,sB;;QAYP,eAAe,oB;QACf,IAAI,CAAC,
QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;;QACzB,cAAc,QAAS,O;QACvB,IAAI,CAAC,QAAS,UAAd,C;UA
AyB,qBAAO,O;UAAP,uB;;QACzB,eAhBmB,QAgBJ,CAAS,OAAT,C;;UAEX,QAAQ,QAAS,O;UACjB,QAnBe,
QAmBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,C;YYACI,UAAAU,C;YACV,WAAW,C;;;MAED,QAAT,QAAS,W;QAClB,OAAO,O;K;iFAGX,yB;MAAA,sE;MZpwC
A,iB;MYowCA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,
QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WZhxCG,MAA
O,KYgxCO,QZhxCP,EYgxCiB,CZhxCjB,C;;QYkxCd,OAAO,Q;O;KAtBX,C;iFAyBA,yB;MAAA,sE;MZxyCA,iB
;MYwyCA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QA
AS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WZpzCG,MAAO,K
YozCO,QZpzCP,EYozCiB,CZpzCjB,C;;QYszCd,OAAO,Q;O;KAtBX,C;iFAyBA,yB;MAAA,sC;QAaI,
eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,
OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,CAAX,C;YACI,W
AAW,C;;;QAGnB,OAAO,Q;O;KAtBX,C;6FAyBA,yB;MZ/0CA,iB;MY+0CA,sC;QAaI,eAAe,oB;QACf,IAAI,CA
AC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UA
CI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,WZz1CG,MAAO,KYy1CO,QZz1CP,EYy1CiB,CZz1CjB,C;;QY21Cd,
OAAO,Q;O;KApBX,C;6FAuBA,yB;MZj3CA,iB;MYi3CA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C
;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,Q
AAS,OAAlB,C;UACR,WZ33CG,MAAO,KY23CO,QZ33CP,EY23CiB,CZ33CjB,C;;QY63Cd,OAAO,Q;O;KApB
X,C;6FAuBA,+B;MAWI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,Q
AAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,2BAAW,CA
AX,KAAJ,C;UACI,WAAW,C;;;MAGnB,OAAO,Q;O;K;yFAGX,yB;MAAA,sE;MAAA,kD;QAaI,eAAe,oB;QACf,IA
AI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAA
hB,C;UACI,QAAQ,SAAS,QAAS,OAAlB,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAAkC,
CAAtC,C;;MY;YACI,WAAAW,C;;;MZG/B,OAAO,Q;O;K;IAGX,iC;MASI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OA
AO,I;MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACnB,OAAO,QAAS,UAAhB,C;UAACI,QAAQ,QAAS,O;QAACjB,MZ18CG,MA

AO,KY08CE,GZ18CF,EY08CO,CZ18CP,C;;MY48Cd,OAAO,G;K;IAGX,iC;MASI,eAAe,oB;MACf,IAAI,CAAC,
QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QA
AS,O;QACjB,MZx+CG,MAAO,KYw+CE,GZx+CF,EYw+CO,CZx+CP,C;;MY0+Cd,OAAO,G;K;IAGX,iC;MAOI
,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAA
S,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;
K;IAGX,2C;MAGI,OAAO,4BAAc,UAAd,C;K;IAGX,iD;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;Q
AAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAA
I,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,
2B;MAII,OAAO,uB;K;IAGX,2B;MAII,OAAO,uB;K;IAGX,2B;MAGI,OAAO,uB;K;iFAGX,+B;MAGW,sB;;QAY
P,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,I;UAAP,uB;;QACzB,cAAc,QAAS,O;QACvB,I
AAI,CAAC,QAAS,UAAd,C;UAAyB,qBAAO,O;UAAP,uB;;QACzB,eAAhBmB,QAgBJ,CAAS,OAAT,C;;UAEX,Q
AAQ,QAAS,O;UACjB,QAnBe,QAmBP,CAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;
YACV,WAAW,C;;;QAED,QAAT,QAAS,W;QAClB,qBAAO,O;;;MAzBP,yB;K;6FAGJ,+B;MASI,eAAe,oB;MAC
f,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,cAAc,QAAS,O;MACvB,IAAI,CAAC,QAAS,UAAd,C;
QAAyB,OAAO,O;MAChC,eAAe,SAAS,OAAT,C;;QAEX,QAAQ,QAAS,O;QACjB,QAAQ,SAAS,CAAT,C;QAC
R,IAAI,2BAAW,CAAX,KAAJ,C;UACI,UAAU,C;UACV,WAAW,C;;;MAED,QAAT,QAAS,W;MAClB,OAAO,O
;K;iFAGX,yB;MAAA,sE;MZj3CA,iB;MYi3CA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,
MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,QAAS,O;QAAS,O
AAlB,C;QACf,UACR,WZ73CG,MAAO,KY63CO,QZ73CP,EY63CiB,CZ73CjB,C;;QY+3Cd,OAAO,Q;O;KAtBX,C;iFA
yBA,yB;MAAA,sE;MZr5CA,iB;MYq5CA,sC;QAeI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAA
M,6B;QAC/B,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,QAAS,O;QAAS,OAAlB
,C;QACf,UACR,WZj6CG,MAAO,KYi6CO,QZj6CP,EYi6CiB,CZj6CjB,C;;QYm6Cd,OAAO,Q;O;KAtBX,C;iFAyBA,yB;
MAAA,sE;MAAA,sC;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SA
AS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,QAAS,O;QAAS,OAAlB,C;QACf,UACR,IAAI,2BAA
W,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAtBX,C;6FAyBA,yB;MZ57CA,iB;MY47CA,sC;QA
aI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,
OAAO,QAAS,UAAhB,C;UACI,QAAQ,QAAS,O;QAAS,OAAlB,C;QACf,UACR,WZt8CG,MAAO,KYs8CO,QZt8CP,EYs8
CiB,CZt8CjB,C;;QYw8Cd,OAAO,Q;O;KApBX,C;6FAuBA,yB;MZ99CA,iB;MY89CA,sC;QAaI,eAAe,oB;QACf,I
AAI,CAAC,QAAS,UAAd,C;UAAyB,OAAO,I;QAChC,eAAe,SAAS,QAAS,OAAlB,C;QACf,OAAO,QAAS,UAA
hB,C;UACI,QAAQ,QAAS,O;QAAS,OAAlB,C;QACf,UACR,WZx+CG,MAAO,KYw+CO,QZx+CP,EYw+CiB,CZx+CjB,C;
;QY0+Cd,OAAO,Q;O;KApBX,C;6FAuBA,+B;MAWI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OA
AO,I;MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,QAAS,OAAl
B,C;QACR,IAAI,2BAAW,CAAX,KAAJ,C;UACI,WAAW,C;;;MAGnB,OAAO,Q;K;yFAGX,yB;MAAA,sE;MAA
A,kD;QAaI,eAAe,oB;QACf,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,6B;QAC/B,eAAe,SAAS,QAAS,OAAl
B,C;QACf,OAAO,QAAS,UAAhB,C;UACI,QAAQ,QAAS,QAAS,OAAlB,C;QACR,IAAI,UAAW,SAAQ,QAAR,E
AAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;MAGnB,OAAO,Q;O;KAtBX,C;qGAyBA,2C;MAWI,
eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,eAAe,SAAS,QAAS,OAAlB,C;MACf,O
AAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,QAAS,OAAlB,C;QACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,C
AAX,GAAkC,CAAtC,C;UACI,WAAW,C;;;MAGnB,OAAO,Q;K;IAGX,iC;MASI,eAAe,oB;MACf,IAAI,CAA
C,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,Q
AAS,O;QACjB,MZvjDG,MAAO,KYujDE,GZvjDF,EYujDO,CZvjDP,C;;MYyjDd,OAAO,G;K;IAGX,iC;MASI,eA
Ae,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,U
AAhB,C;QACI,QAAQ,QAAS,O;QACjB,MZrlDG,MAAO,KYqlDE,GZrlDF,EYqlDO,CZrlDP,C;;MYulDd,OAAO,
G;K;IAGX,iC;MAOI,eAAe,oB;MACf,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;
MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,QAAS,O;QACjB,IAAI,sBAAM,CAAN,KAAJ,C;UAAa,MAAM,
C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UAAd,C;K;IAGX,iD;MAOI,eAAe,oB;MACf,IAAI,CAA
C,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,UAAU,QAAS,O;MACnB,OAAO,QAAS,UAAhB,C;QACI,QAAQ,Q
AAS,O;QACjB,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,

OAAO,G;K;IAGX,4B;MAQI,OAAO,CAAC,oBAAW,U;K;+EAGvB,gC;MAQoB,Q;MAAA,2B;MAAhB,OAAgB,
cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;IAUI,uC;M
AAA,qB;QACP,eAAO,EAAP,C;QAAA,OACA,E;O;K;IATR,sC;MAOI,OAAO,kBAAI,qBAAJ,C;K;IAeW,8C;MA
AA,iC;QACd,eAAO,KAAP,EAAc,OAAd,C;QAAA,OACA,O;O;K;IAXR,6C;MASI,OAAO,wBAAW,4BAAX,C;K
;kFAMX,yB;MAAA,4F;MAAA,uC;QAeI,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM
,mCAA8B,kCAA9B,C;QAC/B,kBAAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UAAU,WAAV,
EAAuB,QAAS,OAAhC,C;;QAElB,OAAO,W;O;KArBX,C;gGAwBA,yB;MAAA,4F;MAAA,wE;MAAA,uC;QAo
BmD,Q;QAL/C,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAd,C;UAAyB,MAAM,mCAA8B,kCAA9B,C;Q
AC/B,YAAY,C;QACZ,kBAAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UAAU,oBAAmB,YAA
nB,EAAmB,oBAAnB,QAAV,EAAuC,WAAvC,EAAoD,QAAS,OAA7D,C;;QAElB,OAAO,W;O;KAtBX,C;4GAy
BA,yB;MAAA,wE;MAAA,uC;QAoBmD,Q;QAL/C,eAAe,SAAK,W;QACpB,IAAI,CAAC,QAAS,UAAd,C;UAAy
B,OAAO,I;QAChC,YAAY,C;QACZ,kBAAAqB,QAAS,O;QAC9B,OAAO,QAAS,UAAhB,C;UACI,cAAc,UAAU,o
BAAmB,YAAnB,EAAmB,oBAAnB,QAAV,EAAuC,WAAvC,EAAoD,QAAS,OAA7D,C;;QAElB,OAAO,W;O;K
AtBX,C;8FAyBA,gC;MAgBI,eAAe,SAAK,W;MACpB,IAAI,CAAC,QAAS,UAAd,C;QAAyB,OAAO,I;MAChC,k
BAAqB,QAAS,O;MAC9B,OAAO,QAAS,UAAhB,C;QACI,cAAc,UAAU,WAAV,EAAuB,QAAS,OAAhC,C;;MA
ElB,OAAO,W;K;IAoBS,2I;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,8C;MAAA,gD;MAAA,kD;MAAA,wB;MA
AA,+B;MAAA,kC;K;;;;sDAAA,Y;;;;;cACZ,gB;8BAAA,iCAAM,0BAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;;;u
CACKkB,0B;cACF,wD;cAAhB,gB;;;cAAA,KAAgB,yBAAhB,C;gBAAA,gB;;;;cAAgB,oC;cACZ,yBAAc,6BAAU,s
BAAV,EAAuB,OAAvB,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAI
J,W;;;;;;;;;;;;;;;;K;IAPgB,wF;MAAA,yD;uBAAA,+H;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAjBpB,sD;MAiBI,OA
AO,SAAS,iDAAT,C;K;IA4BS,yJ;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,8C;MAAA,8D;MAAA,kD;MAAA,
wB;MAAA,yB;MAAA,+B;MAAA,kC;K;;;;6DAAA,Y;;;;;kBAKmC,I;cAJ/C,gB;8BAAA,iCAAM,0BAAN,O;kBAB
AA,2C;uBAAA,yB;cAAA,Q;;;;iCACY,C;uCACM,0B;cACF,+D;cAAhB,gB;;;cAAA,KAAgB,yBAAhB,C;gBAAA,
gB;;;;cAAgB,oC;cACZ,yBAAc,6BAAU,oBAAmB,uBAAnB,EAAmB,+BAAnB,QAAV,EAAuC,sBAAvC,EAAo
D,OAApD,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAIJ,W;;;;;;;;;;;;;;
K;IARgB,sG;MAAA,yD;uBAAA,6I;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAlBpB,6D;MAkBI,OAAO,SAAS,wD
AAT,C;K;IA2BS,4H;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,oD;MAAA,kD;MAAA,4B;MAAA,+B;MAAA,kC
;K;;;;wDAAA,Y;;;;;oCACAG,wC;cACf,IAAI,mBAAS,UAAb,C;yCACyB,mBAAS,O;gBAC9B,gB;gCAAA,iCAA
M,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;;;;;cAGI,gB;;;cACAA,mBAAS,UAAhB,C;gBAAA,g
B;;;cAGI,gB;;;;cACAI,yBAAc,6BAAU,sBAAV,EAAuB,mBAAS,OAAhC,C;cACd,gB;8BAAA,iCAAM,sBAAN,O
;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;cAHJ,W;;;;;;;;;;;;;;;K;IAVgB,yE;MAAA,yD;uBAAA,gH;YAA
A,S;iBAAA,Q;;iBAAA,uB;O;K;IAhBpB,+C;MAgBI,OAAO,SAAS,0CAAT,C;K;IA6BS,0I;MAAA,wC;MAAA,6
B;MAAA,yB;MAAA,kE;MAAA,kD;MAAA,kE;MAAA,kD;MAAA,4B;MAAA,+B;MAAA,yB;MAAA,kC;K;;
;;+DAAA,Y;;;;;cAOuC,Q;oCACANpC,+C;cACf,IAAI,mBAAS,UAAb,C;yCACyB,mBAAS,O;gBAC9B,gBAA
A,iCAAM,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAFJ,gB;;;;;iCACAGgB,C;cACZ,gB;;;cAAA,KAAO,mB
AAS,UAAhB,C;gBAAA,gB;;;;cAACI,yBAAc,6BAAU,oBAAmB,uBAAnB,EAAmB,+BAAnB,QAAV,EAAuC,sB
AAvC,EAAoD,mBAAS,OAA7D,C;cACd,gB;8BAAA,iCAAM,sBAAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAF
J,gB;;;cAJJ,gB;;;cASJ,W;;;;;;;;;;;;;;;;;K;IAXgB,uF;MAAA,yD;uBAAA,8H;YAAA,S;iBAAA,Q;;iBAAA,uB
;O;K;IAhBpB,sD;MAgBI,OAAO,SAAS,iDAAT,C;K;IAcX,+C;MAkBI,OAAO,yBAAY,OAAZ,EAAqB,SAArB,
C;K;IAGX,sD;MAmBI,OAAO,gCAAmB,OAAnB,EAAA4B,EAA4B,SAA5B,C;K;K;gFAGX,+B;MASoB,Q;MA
DhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,
OAAO,G;K;4FAGX,+B;MASoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,
OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;iFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAg
B,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;iFAGX,yB;MAAA,SAWoB,gB;MAX
pB,sC;QAYoB,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,cAAhB,C;QAAgB,yB;QUACZ,cAAO,SAAS,OAAT,C
AAP,I;;MAEJ,OAAO,G;O;K;KAfX,C;iFAkBA,yB;M3B15DA,6B;M2B05DA,sC;QAaoB,Q;QADhB,U3B55DmC
,c2B45DnB,C3B55DmB,C;Q2B65DnB,2B;QAAhB,OAAgB,cAAhB,C;QAAgB,yB;QUACZ,M3BhuEiD,c2Bgu
EjD,G3BhuE2D,KAAK,G2Bg

uEzD,SAAS,OAAT,C3BhuEoE,KAAX,IAAf,C;;Q2BkuErD,OAAO,G;O;KAhBX,C;iFAmBA,yB;MX16DA,+B;M
W06DA,sC;QAaoB,Q;QADhB,UX36DqC,eAAW,oBW26D/B,CX36D+B,CAAX,C;QW46DrB,2B;QAAhB,OAAg
B,cAAhB,C;UAAgB,yB;UACZ,MXhvEmD,eWgvEnD,GXhvE8D,KAAK,KWgvE5D,SAAS,OAAT,CXhvEuE,KA
AX,CAAhB,C;;QWkvEvD,OAAO,G;O;KAhBX,C;IAyBe,oD;MAAA,qB;QAAE,e;UAAM,MAAM,gCAAyB,2BA
AwB,mBAAxB,MAAzB,C;;QAAZ,S;O;K;IANjB,qC;MAMI,OAAO,kBAAI,gCAAJ,C;K;IAGX,oC;MAaI,OAAO,
sBAAS,IAAT,EAAe,IAAf,EAAsC,IAAtC,C;K;IAGX,+C;MAkbI,OAAO,sBAAS,IAAT,EAAe,IAAf,EAAsC,IAAt
C,EAAwD,SAAxD,C;K;IASA,0D;MAAA,4B;MAAA,sC;K;IAG0B,+E;MAAA,qB;QAAE,IAAI,CAAC,iBAAD,IA
AY,WAAM,eAAN,CAAhB,C;UAAiC,oBAAU,I;UAA3C,OAAiD,K;;UAAjD,OAA8D,I;O;K;6CAF7F,Y;MACI,k
BAAc,KAAd,C;MACA,OAAkB,SAAX,eAAW,EAAO,kEAAP,CAA8E,W;K;;IAT5G,qC;MAMI,kD;K;IAsBO,6D;
MAAA,wC;MAAA,4B;K;IAG6B,8D;MAAA,qB;QAAE,OAAM,aAAN,mB;O;K;+CAFlC,Y;MACI,YAAqB,8BA
AT,qBAAS,C;MACrB,OAAkB,YAAX,eAAW,EAAAU,4CAAV,CAA0B,W;K;;IAjBxD,sC;MAaI,IAAI,Q9B80KG,
YAAQ,C8B90Kf,C;QAAwB,OAAO,S;MAC/B,qD;K;IAqBO,6D;MAAA,wC;MAAA,4B;K;IAMiC,8D;MAAA,qB;
QAAE,OAAM,aAAN,mB;O;K;+CALtC,Y;MACI,YAAqB,4BAAT,qBAAS,C;MACrB,IAAI,KAAM,UAAV,C;QA
CI,OAAO,eAAW,W;;QAElB,OAAkB,YAAX,eAAW,EAAAU,4CAAV,CAA0B,W;K;;IAnB5D,sC;MAaI,qD;K;IAw
BO,6D;MAAA,wC;MAAA,4B;K;IAMiC,8D;MAAA,qB;QAAE,OAAM,aAAN,mB;O;K;+CALtC,Y;MACI,YAAq
B,8BAAT,qBAAS,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAAO,eAAW,W;;QAElB,OAAkB,YAAX,eAAW,E
AAU,4CAAV,CAA0B,W;K;;IAnB5D,sC;MAaI,qD;K;8FAWJ,yB;MAAA,4C;MAAA,qC;QAOI,OAAO,iBAAM,O
AAN,C;O;KAPX,C;wFAUA,yB;MAAA,+D;MAAA,6B;MAAA,uC;QAYoB,Q;QAFhB,YAAY,gB;QACZ,aAAa,g
B;QACG,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,KAAM,WAAI,
OAAAJ,C;;YAEN,MAAO,WAAI,OAAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;K;;;;YAEN,MAAO,
WAAI,OAAAJ,C;;;QAGf,OAAO,cAAK,KAAL,EAAY,MAAZ,C;O;K;;;;;;QAGf,oCACL,sC;cACf,IAAI,CAAC,mBAA
S,UAAd,C;gBAAyB,M;;gBAAzB,gB;;;;;;;;mCACc,mBAAS,O;cACvB,gB;;;cAAA,KAAO,mBAAS,UAAhB,C;gBAA
A,gB;;;;gCACe,mBAAS,O;cAACpB,gB;8BAAA,iCAAM,6BAAU,kBAAV,EAAmB,eAAnB,CAAN,O;kBAAA,2C;uBA
AA,yB;cAAA,Q;;cACA,qBAAU,e;cAHd,gB;;;cAKJ,W;;;;;;;;;;;;;;;K;IATwB,uE;MAAA,yD;uBAAA,4G;YAAA,S;iBAAA,Q;;iBA
AA,uB;O;K;IAZ5B,6C;MAYI,OAAO,SAAS,0CAAT,C;K;IAYX,8F;MAU6D,yB;QAAA,YAA0B,I;MAAM,sB;QAAA
,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QA
AA,YAAoC,I;MAGtN,Q;MAFhB,MAAO,gBAAO,MAAP,C;MACP,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAh
B,C;QAAgB,yB;QACZ,IAAI,iCAAU,CAAd,C;UAAiB,MAAO,gBAAO,SAAP,C;QACxB,IAAI,QAAQ,CAAR,IA
Aa,SAAS,KAA1B,C;UACW,gBAAO,MAAO,EAAc,OAAd,EAAuB,SAAvB,C;;UACJ,K;;MAEX,IAAI,IAAI,SAAR,C;QAAi
C,MAAO,gBAAO,OAAP,C;MACxC,MAAO,gBAAO,OAAP,C;M;K;IAGX,4F;MAUwC,yB;QAAA,YAA0B,I;MAA
M,sB;QAAA,SAAuB,E;MAAI,uB;QAAA,UAAwB,E;MAAI,qB;QAAA,QAAa,E;MAAI,yB;QAAA,YAA0B,K;MAAO,yB;QAAA,YAAoC,I;MAACjN,OAAO,oBAAO,sBAAP,E
AAwB,SAAxB,EAAmC,MAAnC,EAA2C,OAA3C,EAAoD,KAApD,EAA2D,SAA3D,EAAsE,SAAtE,CAAiF,W;
K;IAOxE,8C;MAAA,mB;QAAE,OAAA,eAAK,W;O;K;IAJ3B,kC;MAII,oCAAgB,8BAAhB,C;K;2FAGJ,qB;MAK
I,OAAO,S;K;IAGX,+B;MASoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;
QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAEJ,OAAAW,UAAS,CAAAb,GAAg
B,wCAAO,IAAvB,GAAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAEJ,

OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,UAAkB,G;
MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAn
B,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;M
ASoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAA
O,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAA
gC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MACD,2B;MAAhB,OAAgB,cAAh
B,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;MAEJ,OAAW,UAAS,CAAb,G
AAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,+B;MASoB,Q;MAFhB,UAAkB,G;MAClB,YAAiB,C;MAC
D,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;QACP,oBAAmB,qBAAnB,EAAmB,KAAnB,E;;M
AEJ,OAAW,UAAS,CAAb,GAAgB,wCAAO,IAAvB,GAAgC,MAAM,K;K;IAGjD,2B;MAQoB,Q;MADhB,UAAe,
C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,YAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAQoB,Q
;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,YAAO,O;;MAEX,OAAO,G;K;IAG
X,2B;MAQoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,YAAO,OAAP,I;;
MAEJ,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,Y;MACgB,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,
cAAO,OAAP,C;;MAEJ,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAiB,G;MACD,2B;MAAhB,OAAgB,cAAh
B,C;QAAgB,yB;QACZ,OAAO,O;;MAEX,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAkB,G;MACF,2B;MAA
hB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,O;;MAEX,OAAO,G;K;IC71FX,qC;MAMI,aAAa,qBAAiB,YAA
Y,cAAZ,CAAjB,C;MACb,kBAAc,KAAd,C;MX4zBgB,Q;MAAA,OW3zBT,SX2zBS,W;MAAhB,OAAgB,cAAhB
,C;QAAgB,2B;QAAU,oB;QW3zBK,IAAI,CAAC,SAAD,IAAY,OX2zBX,SW3zBW,UAAhB,C;UAAiC,YAAU,I;
UAA3C,mBAAiD,K;;UAAjD,mBAA8D,I;;QX2zBvE,qB;UW3zBD,MX2zBqC,WAAI,SAAJ,C;;MW3zB1D,OAA
qB,M;K;IAGzB,sC;MAUI,aAAa,qBAAiB,SAAjB,C;MACN,YAAP,MAAO,EAAU,QAAV,C;MACP,OAAO,M;K;
IAGX,sC;MAUI,YAAqB,gCAAT,QAAS,EAAAgC,SAAhC,C;MACrB,IAAI,KAAM,UAAV,C;QACI,OAAY,QAAL
,SAAK,C;MAChB,IAAI,yBAAAJ,C;QACgB,kBAAAY,sB;QXixBZ,Q;QAAA,OWjxBL,SXixBK,W;QWAAhB
,OAAgB,cAAhB,C;QAAgB,yB;QUAAM,IAAI,CWjxBwB,qBXixBb,OWjxBa,CXixB5B,C;UAAA,YAAyB,WAAY,
WAAI,OAAJ,C;;;QWjxBvD,OXkxBG,W;;;MWjxBP,aAAa,qBAAiB,SAAjB,C;MACb,MAAO,mBAAU,KAAV,C;M
ACP,OAAO,M;K;IAGX,uC;MAUI,aAAa,qBAAiB,SAAjB,C;MACN,YAAP,MAAO,EAAU,QAAV,C;MACP,OAAO,
M;K;gGAGX,yB;MAAA,8C;MAAA,qC;QAOI,OAAAO,iBAAM,OAAN,C;O;KAPX,C;IAUA,qC;QAOI,OAAAO,iBAA
M,OAAN,C;O;KAPX,C;IAUA,qC;QAOI,OAAAO,iBAAM,OAAN,C;O;KAPX,C;IAUA,qC;QAOI,OAAAO,iBAA
M,OAAN,C;O;KAPX,C;IAUA,qC;QAOI,OAAAO,iBAAM,OAAN,C;O;KAPX,C;IAUA,sC;MUAT,M;MAA1C,aAA
a,qBAAiB,YAAY,cAAZ,CAAjB,C;MACb,MAAO,gBAAO,SAAP,C;MACP,MACA,OAAAP,MAAO,EAAO,QAAP,
C;MACP,OAAO,M;K;IAGX,sC;MAOI,aAAa,qBAAiB,YAAY,SAAZ,KAAL,GAAY,QAAS,OAAArB,IAAZ,IAAZ,
CAAjB,C;MACb,MAAO,gBAAO,SAAP,C;MACA,SAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;IAGX,sC;MA
MuD,UAAT,M;MAA1C,aAAa,qBAAiB,YAAY,WAAS,4BAAT,QAAS,CAAT,YAA4C,cAAL,WAAvC,4BAA2D,SA
AK,KAAL,GAAY,CAAZ,IAAvE,CAAjB,C;MACb,MAAO,gBAAO,SAAP,C;MACA,OAAP,MAAO,EAAO,QAAP,C;M
ACP,OAAO,M;K;IAGX,sC;MAOI,aAAa,qBAAiB,YAAY,SAAK,KAAL,GAAY,CAAZ,IAAZ,CAAjB,C;MACb,MAA
O,gBAAO,SAAP,C;MACA,OAAP,MAAO,EAAO,QAAP,C;MACP,OAAO,M;K;8FAGX,yB;MAAA,4C;MAAA,q
C;QAOI,OAAAO,gBAAAK,OAAAL,C;O;KAPX,C;InBnIA,oD;MAMuF,wC;K;IANvF,8CAOI,Y;MAAuC,8B;K;
IAP3C,gF;ICGA,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;gGmBYA,yB;MAAA,uD;MAAA
,gC;MAAA,iD;QAOI,OAAW,UAAS,CAAT,IAAc,SAAS,wBAAA3B,GAAsC,qBAAAI,KAAAJ,CAAtC,GAAsC,qB
AAI,KAAJ,CAAtC,GAAsD,uBAAAa,KAAAb,E;O;KAPjE,C;gGAUA,yB;MAAA,+C;MAAA,mC;QAOI,OAAAO,
OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;0EAUA,yB;MA4EA,6C;MAAA,oC;QAOI,OAAW,sB;;UAyEs
B,Q;UAAA,OAAA,SAAK,WAAL,W;UAAhB,OAAgB,cAAhB,C;YAAgB,2B;YAAM,IAzEY,SAyEZ,CAAgB,OAAhB
,CAAhB,C;cAAwB,qBAAO,I;cAAP,OAAO,O;;;UAzEZ,qBAAO,K;;;QAAP,OAAO,M;O;KAPX,C;0EAUA,yB;MA
AA,+C;MAAA,mC;QAOI,OAAAO,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;0EAUA,yB;MAwEA,6C;MA
AA,oC;QAOI,OAAW,sB;;UAyEsB,Q;UAAA,OAAA,SAAK,WAAL,W;UAAhB,OAAgB,cAAhB,C;YAAgB,2B;YA
AM,IAzEY,SAyEZ,CAAgB,OAAhB,CAAhB,C;cAAwB,qBAAO,I;cAAP,OAAO,O;;;UAzEZ,qBAAO,K;;;QAAP,
OAAO,M;O;KAPX,C;8FAGX,yB;MAAA,4C;MAAA,qC;QAOI,OAAAO,gBAAAK,OAAAL,C;O;KAPX,C;InBnIA,oD;M
AMuF,wC;K;IANvF,8CAOI,Y;MAAuC,8B;K;IAP3C,gF;ICGA,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B
;K;IAT3C,gF;gGmBYA,yB;MAAA,uD;MAAA,gC;MAAA,iD;QAOI,OAAW,UAAS,CAAT,IAAc,SAAS,wBAAA3B
,GAAsC,qBAAAI,KAAAJ,CAAtC,GAAsC,qBAAI,KAAJ,CAAtC,GAAsD,uBAAAa,KAAAb,E;O;KAPjE,C;gGAU
A,yB;MAAA,+C;MAAA,mC;QAOI,OAAAO,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAPhB,C;0EAUA,yB;MA4E
A,6C;MAAA,oC;QAOI,OAAW,sB;;UAyEsB,Q;UAAA,OAAA,SAAK,WAAL,W;UAAhB,OAAgB,cAAhB,C;YAAg
B,2B;YAAM,IAzEY,SAyEZ,CAAgB,OAAhB,CAAhB,C;cAAwB,qBAAO,I;cAAP,OAAO,O;;;UAzEZ,qBAAO,K;;;
QAAP,OAAO,M;O;KAPX,C;8FAGX,yB;MAAA,4C;MAAA,qC;QAQI,OAAAO,OAAY,UAAL,SAAK,EAAU,KAAV,
C;O;KARhB,C;K;4EAGX,yB;MAAA,6C;MAAA,oC;QAOI,OAAW,sB;;UAyEsB,Q;UAAA,OAAA,SAAK,WAAL,W;
UAAhB,OAAgB,cAAhB,C;YAAgB,2B;YAAM,IAzEY,SAyEZ,CAAgB,OAAhB,CAAhB,C;cAAwB,qBAAO,I;cAAP,
OAAO,O;;;UAzEZ,qBAAO,K;;;QAAP,OAAO,M;O;KAPX,C;IAUA,qB;MAMI,ICkOgD,qBAAAU,CDlO1D,C;QAC
I,MAAM,2BAAAuB,yBAAvB,C;MACV,OAAO,qBAAK,CAAL,C;K;4EAGX,yB;MAAA,6C;MAAA,oC;QAOI,OAAW
,sB;;UAyEsB,Q;UAAA,OAAA,SAAK,WAAL,W;UAAhB,OAAgB,cAAhB,C;YAAgB,2B;YAAM,IAzEY,SAyEZ,C
AAgB,OAAhB,CAAhB,C;cAAwB,qBAAO,I;cAAP,OAAO,O;;;UAzEZ,qBAAO,K;;;QAAP,OAAO,M;O;;4EAGX,y
B;MAAA,+C;MAYA,6C;MAAA,iE;QAMI,iE;QAYA,6C;QAAA,iE;;UAAA,kBAAY,mD;UAAA,+C;UAAA,iE;QM
AZA,iE;QAYA,6C;QAAA,oC;QAAA,gC;QM5EA,gG;QAAA,+C;O;;U;;UAAA,iE;;;QM5EA,iE;QAYA,6C;QAAA,
oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;U;;UAAA,iE;;;QM5EA,iE;QAQA,6C;QAAA,oC;QAAA,+C;;;QM5EA,
iE;UAAA,mC;O;;U;;UAAA,iE;;;QM5EA,iE;QAQA,6C;QAAA,oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;U;;UA
AA,iE;;;QM5EA,iE;QAQA,6C;QAAA,oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;U;;UAAA,iE;;;QM5EA,iE;Q
AQA,6C;QAAA,oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;U;;UAAA,iE;;;QM5EA,iE;QAYA,6C;QAAA,oC;QAA
A,+C;;;QM5EA,iE;UAAA,mC;O;;U;;UAAA,iE;;;QM5EA,iE;QAQA,6C;QAAA,oC;QAAA,+C;;;QM5EA,iE;UA
AA,mC;O;;U;;UAAA,iE;;;QM5EA,iE;QAYA,6C;QAAA,oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;U;;UAAA,iE
;;;QM5EA,iE;QAQA,6C;QAAA,oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;U;;UAAA,iE;;;QM5EA,iE;QAQA,6C
;QAAA,oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;U;;UAAA,iE;;;QM5EA,iE;QAYA,6C;QAAA,oC;QAAA,+C;;;Q
M5EA,iE;UAAA,mC;O;;U;;UAAA,iE;;;QM5EA,iE;QAQA,6C;QAAA,oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;
U;;UAAA,iE;;;QM5EA,iE;QAYA,6C;QAAA,oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;U;;UAAA,iE;;;QM5EA,i
E;QAQA,6C;QAAA,oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;U;;UAAA,iE;;;QAQI,OAAAU,YAAS,U;;;QM5EA
,iE;UAAA,mC;O;;U;;UAAA,iE;;;QM5EA,iE;QAQA,6C;QAAA,oC;QAAA,+C;;;QM5EA,iE;UAAA,mC;O;;U;;U
AAA,iE;;;QAYS,U;UAAA,4B;UAAhB,OAAgB,gBAAhB,C;YAAgB,2B;YAAM,IAAI,CAAC,SAAK,OAAO,OAAZ,C
;cAAuB,OAAO,K;;;UAAhC,OAAgB,gBAAhB,C;YAAgB,sB;YAAC,SAAS,IAAI,GAAG,OAAO,OAAd,C;;;YAAA,
YAAA,YAAA,YAAZ;O;;U;;UAAA,iE;

AI,cAAJ,C;cACI,8BAAO,M;cAAP,gC;;;UAGR,8BAAO,I;;;QAlBA,kC;QAAA,iB;UAAmC,MAAM,gCAAuB,sEA
AvB,C;;QAAhD,OAAO,I;O;KATX,C;yGAYA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QASoB,Q;QAA
A,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,aAAa,UAAU,oBAAV,C;UACb,IAAI,cAAJ,C;YACI,OAAO,
M;;;QAGf,OAAO,I;O;KAfX,C;IAkBA,mC;MAII,OCkLgD,qBAAU,CDlLnD,GAAe,IAAf,GAAyB,qBAAK,CAAL
,C;K;wFAGpC,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAIoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C
;UAAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QACrD,OAAO,I;O;KALX,C;mFAQA,yB
;MAAA,uD;MAAA,gC;MAAA,iD;QAKI,OAAW,SAAS,CAAT,IAAc,SAAS,wBAA3B,GAAsC,qBAAI,KAAJ,CA
AtC,GAAsD,uBAAa,KAAb,E;O;KALjE,C;IAQA,uC;MAMI,OAAW,SAAS,CAAT,IAAc,SAAS,2BAA3B,GAAsC
,qBAAI,KAAJ,CAAtC,GAAsD,I;K;0FAGjE,yB;MAAA,mD;MAAA,oC;MAAA,uC;QAIkB,gC;QAAA,6B;QAAA,
mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,UAAU,iCAAK,KAAL,EAAV,CAAJ,C;YACI,OAAO,K;;;QAGf,
OAAO,E;O;KATX,C;wFAYA,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,uC;QAIkB,Q;QAAA,OAAQ,SAAR
,sBAAQ,CAAR,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,UAAU,iCAAK,KAAL,EAAV,CAAJ,C;YACI,O
AAO,K;;;QAGf,OAAO,E;O;KATX,C;IAYA,4B;MAQI,ICsHgD,qBAAU,CDtH1D,C;QACI,MAAM,2BAAuB,yB
AAvB,C;MACV,OAAO,qBAAK,2BAAL,C;K;0EAGX,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,iE;MAAA,
uC;QAQkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAA
c,qBAAK,KAAL,C;UACd,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,6DAAv
B,C;O;KAZV,C;IAeA,kC;MAMI,OC4FgD,qBAAU,CD5FnD,GAAe,IAAf,GAAyB,qBAAK,mBAAS,CAAT,IAAL
,C;K;sFAGpC,yB;MAAA,mD;MAAA,+C;MAAA,oC;MAAA,uC;QAMkB,Q;QAAA,OAAa,SAAR,YAAL,SAAK,
CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,qBAAK,KAAL,C;UACd,IAAI,oBAAV,oBAAU,
c,qBAAK,KAAL,C;UACd,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAVX,C;8EA
Aa,yB;MAAA,mC;MAAA,yC;MAAA,4B;QAQI,O
AAO,kBAAO,cAAP,C;O;KARX,C;IAWA,sC;MAOI,IC0DgD,qBAAU,CD1D1D,C;QACI,MAAM,2BAAuB,yBA
AvB,C;MACV,MACV,OAAO,qBAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;0FAGX,yB;MAAA,mC;MAAA,qD;MA
AA,4B;QAQI,OAAO,wBAAAa,cAAb,C;O;KARX,C;IAWA,4C;MAMI,IC0CgD,qBAAU,CD1C1D,C;QACI,MAC
X,OAAO,qBAAAI,MAAO,iBAAQ,gBAAR,CAAX,C;K;IAGX,8B;MAIiB,IAAN,I;MAAA,QAAM,gBAAN,C;aA
CH,C;UAAAK,MAAM,2BAAuB,yBAAvB,C;aaACX,C;UAAAK,4BAAK,CAAL,C;UAAL,K;;UAACQ,MAAM,gC
AAyB,0CAAzB,C;;MAHlB,W;K;8EAOJ,yB;MAAA,6C;MAAA,oC;MAAA,kF;MAAA,gC;MAAA,iE;MAAA,8B;
MAAuC,QAXP,aAAoB,I;QAACpB,YAAY,K;QACI,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,
UAAI,IAAI,KAAJ,C;cAAW,MAAM,8BAAAyB,wDAAzB,C;YACjB,SAAS,O;;QACT,QAAAQ,I;;;QAGhB,IAAI,
IAAAI,CAAC,KAAAL,C;QUAAY,MAAM,gCAAuB,6DAAvB,C;QAElB,OAAE,O;QAACpB,YAAY,I;O;YAClB,
SAAS,O;;QAGhB,IAAI,KAAAL,CAAC,KAAAL,C;QUAAo,I;YAClB,CAACpB,OAAAO,I;QACnB,OAAAO,M;O;
KAdX,C;IAiBA,+B;MlBzRI,IAAI,EkBiSI,KAAK,ClBjST,CAAJ,C;QACI,QACI,ckBgSc,wD;QlB/Rd,MAAM,gC
AAuB,OAAAjC,C;;MkBiSlB,gSV,OAAO,8BAAc,eAAF,CAAE,EAAa,gBAAb,CAAd,EAAoC,gBAApC,C;K;IAG
X,+B;MlBrSI,IAAI,EkB6SI,KAAK,ClB7ST,CAAJ,C;QACI,ckB4Sc,wD;QlB3Sd,MAAM,gCAAuB,OAAAjC,C;;
MkB6SlB,OLhH6E,oBKg
H1D,eAAF,CAAE,EAAa,gBAAb,CLhH0D,CKgH7E,C;K;IAGX,kC;MlBjTI,IAAI,EkByTI,KAAK,ClBzTT,CAAJ,C
;QACI,ckBwTc,wD;QlBvTd,MAAM,gCAAuB,OAAAjC,C;;MkByTlB,OAAO,mBAAAkB,cAAP,C;K;IAGX,kC;M
kB7TI,OAAO,mBAAAkB,cAAAkB,gBAAAZ,gBAAZ,C;KADc,CLhH6E,oBKgH1D,eAAF,CAAE,EAAa,gBAAb,
CLhH0D,CKgH7E,C;K;IAGX,kC;Mk
BzTI,OAAO,mBAAAkB,cAAP,C;K;IAGX,kC;MkB7TI,OAAO,mBAAAkB,cAAAkB,gBAAAZ,gBAAAkB,EAAA,w
BAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,iCAAK,KAAL,EAAV,CAAD,C;YAAoB,KAAK,EAAAV,CAA
Ad,CAAlB,C;K;IAGX,4C;MkB7TI,OAAO,mBAAAkB,cAAAkB,gBAAAZ,gBAAAkB,EAAA,wBAAd,WAA+B,CA
A/B,U;UACI,IAAI,CAAC,UAAU,iCAAK,KAAL,EAAV,CAAD,C;YAAoB,KAAK,EAAAV,CAAd,CAAlB,C;K;IAG
X,2C;MkB7TI,OAAO,mBAAAkB,cAAAkB,gBAAAZ,gBAAAkB,wBAAAkB,EAAA,wBAAd,WAA+B,CAA/B,U;U
ACI,IAAI,UAAU,iCAAK,KAAL,EAAV,CAAJ,C;YAAoB,KAAK,EAAAV,CAAd,CAAlB,C;K;IAGX,2FAGX,yB;
MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAAc,wBAAAd,WAA+B,C;QAA/B,CAA+B,U;O;KANX,CAAA/B,U;U
AOI,IAAI,OL5JoF,oBK4JjE,YAAL,SAAK,CAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,qBAA
K,KAAL,C;UACd,IAAI,CAAC,UAAU,oBAAV,CAAD,C;YAAyB,OAAO,O;;QAEpC,OL5JoF,oK;O;KAAQ,CAAb,
W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,qBAAK,KAAL,C;UACd,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,
OAAO,O;;QAEnC,OAAO,I;O;KAMuB,UAAL,MAAK,EAAAL,CAAAkB,gBAAAZ,gBAAAkB,EAAL

,M;QAAK,mBAAL,SAAK,C;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,CAAC,UAAU,iCAAK,KA
AL,EAAV,CAAL,C;YACI,OLvLqE,oBKuLpD,KLvLoD,C;;QKwL7E,OAAO,E;O;KATX,C;8EAYA,yB;MAAA,y
D;MAkFA,oC;MAlFA,uC;QAMW,kBAAS,oB;QAkFM,Q;QAAA,uB;QAAtB,iBAAc,CAAd,wB;UACI,cAAc,qBA
AAI,KAAJ,C;UACd,IApF6B,SAoFzB,CAAU,oBAAV,CAAJ,C;YAAwB,WAAY,gBAAO,OAAP,C;;QApFxC,OAsF
O,W;O;KA5FX,C;8EASA,yB;MAAA,yD;MAyEA,oC;MAzEA,uC;QAMW,kBAAS,oB;QAyEM,Q;QAAA,uB;QA
AtB,iBAAc,CAAd,wB;UACI,cAAc,qBAAI,KAAJ,C;UACd,IA3E6B,SA2EzB,CAAU,oBAAV,CAAJ,C;YAAwB,
WAAY,gBAAO,OAAP,C;;QA3ExC,OA6EO,WA7EqC,W;O;KANhD,C;4FASA,yB;MAAA,yD;MAsBA,gC;MA+
sBA,6C;MAAA,oC;MAruBA,uC;QAQW,kBAAgB,oB;QAouBV,gB;QADb,YAAY,C;QACC,0B;QAAb,OAAa,cA
Ab,C;UAAa,iC;UAAM,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UA7sB/B,IAvBoC,SAuBhC,CAAU,OA
AV,EAAiB,OAAjB,CAAJ,C;YAA2C,2BAAO,kBAAP,C;;QAvB/C,OAyBO,W;O;KAjCX,C;4FAWA,yB;MAAA,y
D;MAWA,gC;MA+sBA,6C;MAAA,oC;MA1tBA,uC;QAQW,kBAAgB,oB;QAytBV,gB;QADb,YAAY,C;QACC,0
B;QAAb,OAAa,cAAb,C;UAAa,iC;UAAM,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UA7sB/B,IAZoC,SA
YhC,CAAU,OAAV,EAAiB,OAAjB,CAAJ,C;YAA2C,2BAAO,kBAAP,C;;QAZ/C,OAcO,WAd4C,W;O;KARvD,C
;gGAWA,yB;MAAA,gC;MA+sBA,oC;MA/sBA,oD;QAstBiB,gB;QADb,YAAY,C;QACC,0B;QAAb,OAAb,O
AAa,cAAb,C;UAAa,iC;UAAM,eAAO,cAAP,EAAO,sBAAP,S;UAAA,cAAgB,iB;UA7sB/B,IAAI,UAAU,OAAV,
EAAiB,OAAjB,CAAJ,C;YAA2C,2BAAO,kBAAP,C;;QAE/C,OAAO,W;O;KAXX,C;oFAcA,yB;MAAA,yD;MAk
BA,6C;MAAA,oC;MAAA,gC;MAlBA,uC;QAMW,kBAAY,oB;QAkBH,Q;QAAA,0B;QAAhB,OAAAhB,OAAgB,cAAhB,C;
UAAgB,oC;UAAM,IAAI,CAlBU,SAkBT,CAAU,oBAAV,CAAL,C;YAAyB,WAAY,gBAAO,OAAP,C;;QAlB3D,
OAAmBO,W;O;KAzBX,C;oFASA,yB;MAAA,yD;MASA,6C;MAAA,oC;MAAA,gC;MATA,uC;QAMW,kBAAY,o
B;QASH,Q;QAAA,0B;QAAhB,OAAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,CATU,SAST,CAAU,oBAAV,CAAL
,C;YAAyB,WAAY,gBAAO,OAAP,C;;QAT3D,OAUO,WAVwC,W;O;KANnD,C;wFASA,yB;MAAA,6C;MAAA,
oC;MAAA,gC;MAAA,oD;QAMoB,gB;QAAA,0B;QAAhB,OAAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,CAAC,U
AAU,oBAAV,CAAL,C;YAAyB,WAAY,gBAAO,OAAP,C;;QAC3D,OAAO,W;O;KAPX,C;IAaa,sC;MAII,IAAI,OAAQ
,UAAZ,C;QAAuB,OAAO,E;MAC9B,OAAO,yBAAY,OAAZ,C;K;IAGX,sC;MAII,IAAI,OAAQ,UAAZ,C;QAAuB
,OAAO,E;MAC9B,OAAO,uBAAU,OAAV,C;K;IAGX,sC;MAOc,Q;MAHV,WAAmB,wBAAR,OAAQ,EAAwB,E
AAxB,C;MACnB,IAAI,SAAAQ,CAAZ,C;QAAe,OAAO,E;MACtB,aAAa,mBAAc,IAAd,C;MACH,yB;MAAV,OA
AU,cAAV,C;QAAU,mB;QACN,MAAO,gBAAO,qBAAI,CAAJ,CAAP,C;;MAEX,OAAO,M;K;4EAGX,yB;MAA
A,8B;MAAA,uC;MAAA,qC;QAKY,Q;QAAR,OAA8B,MAAtB,2DAAsB,EAAAM,OAAAN,CAAe,W;O;KALjD,C;I
AQA,+B;MlB7fI,IAAI,EkBqgBI,KAAK,ClBrgBT,CAAJ,C;QkBsgBQ,QlBtgBR,mBAAM,gCAAyB,OAAQ,WAAjC
,EAAtB,2DAAsB,EAAe,EAAa,gBAAb,CAAjB,C;K;IALjD,C;;MkBogBV,OAAO,8BAAY,CAAZ,EAAiB,eAAAF,CAA
AE,EAAa,gBAAb,CAAjB,C;K;IAGX,+B;MlBzfI,IAAI,EkBigBI,KAAK,ClBjgBT,CAAJ,C;QkBkgBQ,QlBlgBR,mBAAM
,gCAAyB,OAAQ,WAAjC,EAAtB,2DAAsB,EAAe,EAAa,gBAAb,CAAjB,C;K;IALjD,C;;MkBggBV,OAAO,8B
BghBV,OLjV4F,oBKiV3E,CLjV2E,EKiVtE,eAAF,CAAE,EAAa,gBAAb,CLjVsE,C;K;IAKoVhG,kC;MlBrhBI,I
AAI,EkB6hBI,KAAK,ClB7hBT,CAAJ,C;QkB8hBQ,QlB9hBR,mBAAM,gCAAyB,OAAQ,WAAjC,EAAtB,2DAAsB,
EAAe,EAAa,gBAAb,CAAjB,C;K;IAXX,C;;Mk
B4hBV,aAAa,gB;MACb,OAAO,8BAAY,SAAW,eAAF,CAAE,EAAa,MAAb,CAAX,IAAZ,EAA6C,MAA7C,C;K;
IAGX,mC;MlBliBI,IAAI,EkB0iBI,KAAK,ClB1iBT,CAAJ,C;QkB2iBQ,QlB3iBR,mBAAM,gCAAyB,OAAQ,WAAjC,
EAAtB,2DAAsB,EAAe,EAAa,gBAAb,CAAjB,C;K;;MkByiBV,aAAa,gB;MACb,OL9W6E,oBK8W5D,OL9W4D,
EK8W5D,eAAF,CAAE,EAAa,MAAb,CAAX,IL9W4D,C;K;IK2W4FKiXjF,yB;MAAA,uD;MAAA,oC;MAAA,uC
;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OAA
O,8BAAY,QAAQ,CAAR,IAAZ,EAAuB,gBAAvB,C;;;;QAGf,OAAO,8BAAY,CAAZ,EAAe,gBAAf,C;O;KAXX,C
;4FAcA,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UA
AU,iCAAK,KAAL,EAAV,CAAL,C;YACI,OLvLqE,oBKuLpD,QAAQ,CAAR,IL
vLoD,C;;;;QK0L7E,OAAO,S;O;KAVX,C;oFAcA,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAMI,iBAAc,wBAAd
,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,iCAAI,KAAJ,EAAV,CAAL,C;YACI,OAAO,8BAAY,CAAZ,EAAe
,KAAf,C;;;QAEf,OAAO,8BAAY,CAAZ,EAAe,gBAAf,C;O;KAVX,C;oFAcA,yB;MAAA,uD;MAAA,oC;MAAA,u
C;QAMI,iBAAc,wBAAd,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,iCAAI,KAAJ,EAAV,CAAL,C;YACI,OL/ZoF,oB
K+ZnE,CL/ZmE,EK+ZhE,EK+ZhE,KL/ZgE,C;;;QK+Z5F,OAAO,S;O;KAVX,C;IAaa,gC;MAII,OAAO,qBAAc,SAAd
,CAAoB,U;K;IK,kFAG/B,yB;MAAA,8B;MAAA,6C;MAAA,oC;;Mk
AAA,8B;MAAA,6C;MAAA,4B;QAKY,Q;QAAR,OAAR,OAA8B,SAAtB,2D

AAsB,CAAW,W;O;KAL7C,C;oFAQA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA4EA,6C;MAAA,oC;MAAA,gC;
MA5EA,uC;QAWI,eAAmC,cAApB,YAAY,gBAAZ,CAAoB,EAAc,EAAd,C;QAC5B,kBAAY,mBAAoB,QAApB,
C;QAyEH,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WA1E8C,SA0E/B,CAAU,oBAAV,C;UzB
9EnB,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QyBIA,OA4EO,W;O;KAxFX,C;wFAeA,yB;MAAA,0D;M
AAA,yD;MAAA,uE;MA6BA,6C;MAAA,oC;MAAA,gC;MA7BA,yC;QAWI,eAAmC,cAApB,YAAY,gBAAZ,CA
AoB,EAAc,EAAd,C;QAC5B,kBAAc,mBAAuB,QAAvB,C;QA2BL,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UA
AgB,oC;UACZ,WAAY,aA5BuC,WA4BnC,CAAY,oBAAZ,CAAJ,EAA0B,oBAA1B,C;;QA5BhB,OA8BO,W;O;K
A1CX,C;wFAeA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MA8BA,6C;MAAA,oC;MAAA,gC;MA9BA,yD;QAUI,e
AAmC,cAApB,YAAY,gBAAZ,CAAoB,EAAc,EAAd,C;QAC5B,kBAAc,mBAAoB,QAApB,C;QA6BL,Q;QAAA,
0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAY,aA9BoC,WA8BhC,CAAY,oBAAZ,CAAJ,EAA0B,oB
A8BvB,CAAe,oBAAf,CAA1B,C;;QA9BhB,OAgCO,W;O;KA3CX,C;4FAcA,yB;MAAA,6C;MAAA,oC;MAAA,gC;
MAAA,sD;QAUoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAY,aAAI,YAAY,oBAAZ,C
AAJ,EAA0B,oBAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;4FAcA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,
sE;QAUoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAY,aAAI,YAAY,oBAAZ,CAAJ,EA
A0B,eAAe,oBAAf,CAA1B,C;;QAEhB,OAAO,W;O;KAbX,C;wFAeA,yB;MAAA,6C;MAAA,oC;MAAA,gC;M
AAA,oD;QASoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAe,UAAU,oBAAV,C;UzB9En
B,wBAAI,IAAK,MAAT,EAAgB,IAAK,OAArB,C;;QyBgFA,OAAO,W;O;KAZX,C;4FAeA,yB;MAAA,uD;MAA
A,0D;MAAA,yD;MAAA,uE;MAgBA,6C;MAAA,oC;MAAA,gC;MAhBA,2C;QAYI,aAAa,mBAA6D,cAAtC,YA
AmB,aAAP,gBAAAO,EAAAa,GAAAb,CAAAnB,CAAAsC,EAAAc,EAAAd,CAA7D,C;QAcG,Q;QAAA,0B;QAAhB,
OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAf,oC;UAbO,MAcP,aAAI,oBAAAJ,EAAde,aAcF,CAAAc,oBAAAd,CAAb,
C;;QAdhB,OAAuB,M;O;KAb3B,C;+FAgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,wD;QAUoB,Q;Q
AAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAY,aAAI,oBAAAJ,EAAAa,cAAc,oBAAAd,CAAb,C;;
QAEhB,OAAO,W;O;KAbX,C;IAgBA,iD;MAIiB,Q;MAAA,4B;MAAb,OAAa,cAAb,C;UAAa,iC;QACT,WAAY,W
AAI,iBAAAJ,C;;QAEhB,OAAO,W;K;IAGX,iC;MAII,OAAO,2BAAa,eAAc,YAAmB,eAAP,gBAAAO,EAAAa,GAAAb,
CAAAnB,CAAAsC,EAAAd,CAAAb,C;K;IAGX,8B;MAIiB,IAAN,I;MAAA,QAAM,gBAAAN,C;aACH,C;UAACH,C;UA
AK,kB;UAAL,K;aACA,C;UAAK,cAAO,iCAAK,CAAAL,EAAAa,GAAAb,CAAAnB,CAAAsC,EAAAd,CAAAb,EAAP,C;
UAAL,K;;UAACa,wBAAL,SAAK,C;UAHV,K;;QAAP,W;K;IAOJ,qC;MAII,OAAO,2BAAa,iBAAAgB,gB;;Q
AAhB,CAAAb,C;K;IAGX,6B;MAMiB,IAAN,I;MAAA,QAAM,gBAAAN,C;aACH,C;UAACH,C;UAAK,iB;UAAL,K;
aACA,C;UAAK,cAAO,iCAAK,aAAM,iCAAK,CAAAL,EAAAa,GAAAb,CAAAnB,CAAAsC,EAAAd,CAAAb,EAAN,CA
AP,C;UAAL,K;;UAACa,wBAAL,SAAK,C;UAHV,K;;QAAP,W;K;IAOJ,kCAAa,qBAAoB,YAAmB,eAAP,gBAAAO,
EAAAa,GAAAb,CAAAnB,CAAAsC,CAAAb,CAAoB,CAAAb,C;UAHL,K;;QAAP,W;K;IAOJ,+D;MAAA,6C;MAA
A,oC;MAAA,gD;MAAA,gC;MA0CA,uC;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAZ,WAz
C6B,SAyClB,CAAU,oBAAV,CAAAC,WAzCAClB,CAAAU,oBAAAV,CAAAsBAA,V;UAAAmB,oBAAAnB,C;;QA
AhB,OAyCO,W;O;KA1CX,C;IA0CCO,OA4CO,W;O;KAlDX,C;8FAeA,yB;MAAA,+D;MAeA,6C;MAAA,oC
;MAAA,gD;MAAA,gC;MAfA,uC;QAeI,cAAc,gBAAc,gBAAQ,CAAR,CAAd,C;QACd,QAACI,0B;QAAhB,OA
AgB,cAAhB,C;UAAgB,oC;UAIZ,WAfoC,SAevB,CAAU,oBAAV,C;UAAA,MAfuB,eAfc,gBAAAO,EAAAa,GAAAb,
CAAAnB,CAAAsC,EAAAd,CAAAb,C;UAYA,oBAAAnB,C;;QAAhB,OAeO,W;O;KA9BX,C;IA0CCO,OA4CO,W;
O;KAhDX,C;8FAeA,yB;MAAA,+D;MAeA,6C;MAAA,oC;MAAA,gD;MAAA,gC;MAfA,uD;QAeI,cAAc,gBAAc,
gBAAQ,CAAR,CAAd,C;QACdC,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAIZ,WAfoC,SAevB,CAAU,oBAAV
,CAAAC;UAAAmB,oBAAAnB,C;;QAAhB,OAeO,W;O;KA9BX,C;IA0CA,yC;QAASW,kBAAAU,oB;QAyBD,Q;
QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAZ,WAzC6B,SAyClB,CAAU,oBAAV,CAAAC,WAz
CAClB,CAAAU,oBAAAV,CAAAsBAA,V;UAAAmB,oBAAAnB,C;;QAAhB,OAyCO,W;O;KA1CX,C;IA0CA,yC;Q
AASW,kBAAAU,oB;QAyBD,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,WAAZ,WAzC6B,SA
 yClB,CAAU,oBAAV,CAAAC,WAzCACCL,UA1BoD,WA0B1C,WA0BVC6B,SAyClB,CAAU,oBAAV,C;;QAAh
B,OAyCO,W;O;KA1CX,C;IA0CCiD,OA4CO,W;O;KAhEX,C;gGAeA,yB;MAAA,+D;MAyBA,6C;MAAA,o
C;MAAA,+D;MAAA,gC;MAzBA,uD;QAyBI,cAAc,gBAAc,gBAAQ,CAAR,CAAd,C;QACd,Q;QAAA,0B;QAA
hB,OAAgB,cAAhB,C;UAAgB,oC;UAIZ,WAzBoC,SAyBvB,CAAU,oBAAV,CAAAwE,WAAA0B,oBAAA1B,C
;;QAAhB,OAyBO,W;O;KAjDX,C;IA0CA,yC;QAyBI,cAAcC,kBAAoB,QAApB,C;QACd,Q;QAAA,0B;QAAh
B,OAAgB,cAAhB,C;UAAgB,oC;UAIZ,WAzBoC,SAyBvB,CAAU,oBAAV,CAAAwE;UAAA0B,oBAAA1B,C;;
QAAhB,OAyBO,W;O;KAjDX,C;;QAjCT,OAAmCO,W;O;KA7CX,C;oFAaA,yB;MAAA,6C;MAAA,oC;MAAA,+
D;MAAA,gC;MAAA,sD;QASoB,Q

;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,UAAU,YAAY,oBAAZ,C;UzBrjBP,U;UADP,YyBujBe,WzBvjBH,WyBujBwB,GzBvjBxB,C;UACL,IAAI,aAAJ,C;YACH,ayBqjBuC,gB;YAA5B,WzBpjBX,ayBojBgC,GzBpjBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UyBijBA,iB;UACA,IAAK,WAAI,oBAAJ,C;;QAET,OAAO,W;O;KAdX,C;oFAiBA,yB;MAAA,6C;MAAA,oC;MAAA,+D;MAAA,gC;MAAA,sE;QAUoB,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,UAAU,YAAY,oBAAZ,C;UzBvkBP,U;UADP,YyBykBe,WzBzkBH,WyBykBwB,GzBzkBxB,C;UACL,IAAI,aAAJ,C;YACH,ayBukBuC,gB;YAA5B,WzBtkBX,ayBskBgC,GzBtkBhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;UyBmkBA,iB;UACA,IAAK,WAAI,eAAe,oBAAf,CAAJ,C;;QAET,OAAO,W;O;KAfX,C;qFAkBA,yB;MAAA,6C;MAAA,oC;MAAA,kC;MAAA,4C;MAAA,wE;QAQW,sC;QAAA,8C;O;MARX,oDASQ,Y;QAAgD,OAAgB,SAAhB,oBAAgB,C;O;MATxE,iDAUQ,mB;QAAuC,gCAAY,oBAAZ,C;O;MAV/C,gF;MAAA,yC;QAQI,2D;O;KARJ,C;wEAcA,yB;MAAA,gE;MAyEA,6C;MAAA,oC;MAAA,gC;MAzEA,uC;QAOW,kBAAAM,eAAa,gBAAb,C;QAuEA,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,iC;UACT,WAAY,WAAxEmB,SAwEf,CAAU,iBAAAV,CAAAJ,C;;QAxEhB,OAAyEO,W;O;KAhFX,C;sFAUA,yB;MAAA,gE;MA+BA,6C;MAAA,oC;MAAA,gC;MA/BA,uC;QAOW,kBAAAM,eAAa,gBAAb,C;QA+BA,Q;QAAA,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,iC;UACT,WAAY,WAAjC0B,SAiCtB,CAAU,iBAAAV,cAAV,EAAU,sBAAV,WAAmB,iBAAnB,CAAJ,C;;QAjChB,OAAkCO,W;O;KAhCX,C;mGAkBA,yB;MAAA,+D;MAoBA,gC;MApBA,uC;QAOW,kB

ACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eAdmB,QAcJ,CAAS,oB
AAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,qBAAK,CAAL,C;YACR,QAjBe,QAiBP,CAAS,cAAT
,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QAvBP,yB;O;
KAHJ,C;wFAMA,yB;MAAA,uD;MAAA,oC;MAAA,sC;QAOI,ICz4BgD,qBAAU,CDy4B1D,C;UAAe,OAAO,I;Q
ACtB,cAAc,qBAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB,C;UAAoB,OAAO,O;
QAC3B,eAAe,SAAS,oBAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,qBAAK,CAAL,C;UACR,QA
AQ,SAAS,cAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAAO,O
;O;KApBX,C;4EAuBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MdznCA,iB;McynCA,sC;QAeiB,Q;QAFb,ICt6BgD,
qBAAU,CDs6B1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,C
AAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdloCG,MAAO,KckoCO,QdloCP,EckoCiB,CdloCj
B,C;;QcooCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;Md1pCA,iB;Mc0pCA,sC;Q
AeiB,Q;QAFb,IC57BgD,qBAAU,CD47B1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;Q
ACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdnqCG,MAAO,KcmqC
O,QdnqCP,EcmqCiB,CdnqCjB,C;;QcqqCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;MAAA,uD
;MAAA,sC;QAaiB,Q;QAFb,ICh9BgD,qBAAU,CDg9B1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CA
AL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IAAI,2BAA
W,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;wFAsBA,yB;MAAA,oC;MAAA,uD;Md3r
CA,iB;Mc2rCA,sC;QAaiB,Q;QAFb,ICt+BgD,qBAAU,CDs+B1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iCAAK,
CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdlsCG
,MAAO,KcksCO,QdlsCP,EcksCiB,CdlsCjB,C;;QcosCd,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,oC;MAAA,u
D;Md1tCA,iB;Mc0tCA,sC;QAaiB,Q;QAFb,IC1/BgD,qBAAU,CD0/B1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,i
CAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,
WdjuCG,MAAO,KciuCO,QdjuCP,EciuCiB,CdjuCjB,C;;QcmuCd,OAAO,Q;O;KAjBX,C;wFAoBA,yB;MAAA,oC;
MAAA,uD;MAAA,sC;QAWiB,Q;QAFb,IC5gCgD,qBAAU,CD4gC1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iC
AAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IA
AI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;oFAoBA,yB;MAAA,sE;MAAA,o
C;MAAA,uD;MAAA,kD;QAaiB,Q;QAFb,ICliCgD,qBAAU,CDkiC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,i
CAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,I
AAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;K
AnBX,C;gGAsBA,yB;MAAA,oC;MAAA,uD;MAAA,kD;QAWiB,Q;QAFb,ICtjCgD,qBAAU,CDsjC1D,C;UAAe,
OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,i
CAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WA
AW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;IAoBA,iC;MAOiB,Q;MAFb,ICtkCgD,qBAAU,CDskC1D,C;QAAe,OAA
O,I;MACtB,UAAU,qBAAK,CAAL,C;MACG,kC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,qBAAK,CAAL,C;QACR
,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;MAGI,OAAO,4BAAc,UAAd,C;K;IAG
X,iD;MAOiB,Q;MAFb,IC1lCgD,qBAAU,CD0lC1D,C;QAAe,OAAO,I;MACtB,UAAU,qBAAK,CAAL,C;MACG,
kC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,qBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,gBAAR,EAAa,cAAb,C
AAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,2B;MAGI,OAAO,4EAGX,yB;MAMA,uD
;MAAA,oC;MANA,sC;QAGW,sB;;UAUP,ICtnCgD,qBAAU,CDsnC1D,C;YAAe,qBAAO,I;YAAP,uB;;UAUCf,cAA
c,qBAAK,CAAL,C;UACd,gBAAqB,wB;UACrB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,e
AdmB,QAcJ,CAAS,oBAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,qBAAK,CAAL,C;YACR,QAjB
e,QAiBP,CAAS,cAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qB
AAO,O;;;QAvBP,yB;O;KAHJ,C;wFAMA,yB;MAAA,uD;MAAA,oC;MAAA,sC;QAOI,ICtnCgD,qBAAU,CDsnC1
D,C;UAAe,OAAO,I;QACtB,cAAc,qBAAK,CAAL,C;QACd,gBAAqB,cAAL,SAAK,C;QACrB,IAAI,cAAa,CAAjB
,C;UAAoB,OAAO,O;QAC3B,eAAe,SAAS,oBAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,qBAA
K,CAAL,C;UACR,QAAQ,SAAS,cAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,
C;;;QAGnB,OAAO,O;O;O;KApBX,C;4EAuBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MdlpCA,iB;MckpCA,sC;QA
eiB,Q;QAFb,ICnpCgD,qBAAU,CDmpC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;Q
ACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,WdnqCG,MAAO,KcmqC
O,QdnqCP,EcmqCiB,CdnqCjB,C;;QcqqCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;MAAA,uD
;Md1pCA,iB;Mc0pCA,sC;QAeiB,Q;QAFb,ICnpCgD,qBAAU,CDmpC1D,C;UAAe,MAAM,6B;QACrB,eAAe,SA
AS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UA
CR,WdloCG,MAAO,KckoCO,QdloCP,EckoCiB,CdloCjB,C;;QcooCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,
sE;MAAA,oC;MAAA,uD;MdlpCA,iB;MckpCA,sC;QAeiB,Q;QAFb,ICnpCgD,qBAAU,CDmpC1D,C;UAAe,MAA
M,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EA

AT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,Wd3pCG,MAAO,
Kc2pCO,Qd3pCP,Ec2pCiB,Cd3pCjB,C;;Qc6pCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MAAA,sE;MAAA,oC;MA
AA,uD;MdnrCA,iB;McmrCA,sC;QAeiB,Q;QAFb,ICzqCgD,qBAAU,CDyqC1D,C;UAAe,MAAM,6B;QACrB,eAA
e,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C
;UACR,Wd5rCG,MAAO,Kc4rCO,Qd5rCP,Ec4rCiB,Cd5rCjB,C;;Qc8rCd,OAAO,Q;O;KAnBX,C;4EAsBA,yB;MA
AA,sE;MAAA,oC;MAAA,uD;MAAA,sC;QAaiB,Q;QAFb,IC7rCgD,qBAAU,CD6rC1D,C;UAAe,MAAM,6B;QAC
rB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,
EAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;wFAsBA,yB;
MAAA,oC;MAAA,uD;MdptCA,iB;McotCA,sC;QAaiB,Q;QAFb,ICntCgD,qBAAU,CDmtC1D,C;UAAe,OAAO,I;
QACtB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CA
AL,EAAT,C;UACR,Wd3tCG,MAAO,Kc2tCO,Qd3tCP,Ec2tCiB,Cd3tCjB,C;;Qc6tCd,OAAO,Q;O;KAjBX,C;wFAo
BA,yB;MAAA,oC;MAAA,uD;MdnvCA,iB;McmvCA,sC;QAaiB,Q;QAFb,ICvuCgD,qBAAU,CDuuC1D,C;UAAe,
OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iC
AAK,CAAL,EAAT,C;UACR,Wd1vCG,MAAO,Kc0vCO,Qd1vCP,Ec0vCiB,Cd1vCjB,C;;Qc4vCd,OAAO,Q;O;KAj
BX,C;wFAoBA,yB;MAAA,oC;MAAA,uD;MAAA,sC;QAWiB,Q;QAFb,ICzvCgD,qBAAU,CDyvC1D,C;UAAe,O
AAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS,iCA
AK,CAAL,EAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;oF
AoBA,yB;MAAA,sE;MAAA,oC;MAAA,uD;MAAA,kD;QAaiB,Q;QAFb,IC/wCgD,qBAAU,CD+wC1D,C;UAAe,
MAAM,6B;QACrB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAAU,CAAV,iB;UACI,QAAQ,SAAS
,iCAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,W
AAW,C;;;QAGnB,OAAO,Q;O;KAnBX,C;gGAsBA,yB;MAAA,oC;MAAA,uD;MAAA,kD;QAWiB,Q;QAFb,ICny
CgD,qBAAU,CDmyC1D,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,iCAAK,CAAL,EAAT,C;QACF,+B;QAAb,aAA
U,CAAV,iB;UACI,QAAQ,SAAS,iCAAK,CAAL,EAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,C
AAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAjBX,C;IAoBA,iC;MAOiB,Q;MAFb,ICnzCgD
,qBAAU,CDmzC1D,C;QAAe,OAAO,I;MACtB,UAAU,qBAAK,CAAL,C;MACG,kC;MAAb,aAAU,CAAV,iB;QA
CI,QAAQ,qBAAK,CAAL,C;QACR,IAAI,MAAM,CAAV,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;M
AGI,OAAO,4BAAc,UAAd,C;K;IAGX,iD;MAOiB,Q;MAFb,ICv0CgD,qBAAU,CDu0C1D,C;QAAe,OAAO,I;MA
CtB,UAAU,qBAAK,CAAL,C;MACG,kC;MAAb,aAAU,CAAV,iB;QACI,QAAQ,qBAAK,CAAL,C;QACR,IAAI,
UAAW,SAAQ,gBAAR,EAAa,cAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,4
B;MAMI,OCt1CgD,qBAAU,C;K;0EDy1C9D,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,uC;QAMoB,Q;QAA
A,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAAM,IAAI,UAAU,oBAAV,CAAJ,C;YAAwB,OAAO,K;;;QAC
rD,OAAO,I;O;KAPX,C;8EAUA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,oC;QAKmC,Q;QAAA,0B;QAAhB
,OAAgB,cAAhB,C;UAAgB,oC;UAAM,OAAO,oBAAP,C;;QAArC,gB;O;KALJ,C;4FAQA,yB;MAAA,6B;MAA
A,sC;MA/fA,6C;MAAA,oC;MAAA,gC;MA+fA,2BAQiB,yB;QAAvgBjB,6C;QAAA,oC;QAAA,gC;eAugBiB,0B;
YAAA,4B;YAAE,aAAe,c;YAAhgBjB,gB;YADb,YAAY,C;YACC,0B;YAAhg,gB;YADb,YAAY,C;YACC,iC;
cAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,iBAAhB,C;;;YAggBmB,W;W;S;OAAzB,C;MARjB,oC;QAxfiB,
gB;QADb,YAAY,C;QACC,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,iC;cAAM,QAAO,cAAP,EAAO,sBAAP,WA
AgB,iBAAhB,C;;;QAggBnB,gB;O;KARJ,C;8EAWA,yB;MAAA,4F;MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC
;QAgBqB,Q;QAHjB,ICn4CgD,qBAAU,CDm4C1D,C;UAACI,MAAM,mCAA8B,uCAA9B,C;QACV,kBAAkB,
qBAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,wBAAV,EAAuB,iCAAK,KAAL,E
AAvB,E;;QAElB,OAAO,W;O;KAnBX,C;4FAsBA,yB;MAAA,4F;MAAA,uD;MAAA,oC;MAAA,uC;QAgBqB,Q
;QAHjB,ICz5CgD,qBAAU,CDy5C1D,C;UAACI,MAAM,mCAA8B,uCAA9B,C;QACV,kBAAkB,qBAAK,CAAL
,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU,KAAV,EAAiB,wBAAjB,EAAA8B,iCAAK,KAAL
,EAAA9B,E;;QAElB,OAAO,W;O;KAnBX,C;wGAsBA,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAgBqB,Q;QAHj
B,IC/6CgD,qBAAU,CD+6C1D,C;UAACI,OAAO,I;QACX,kBAAkB,qBAAK,CAAL,C;QACD,+B;QAAjB,iBAA
c,CAAd,yB;UACI,cAAc,oBAAU,KAAV,EAAiB,wBAAjB,EAAA8B,iCAAK,KAAL,EAAA9B,E;;QAElB,OAA
O,W;O;KAnBX,C;0FAsBA,yB;MAAA,uD;MAAA,oC;MAAA,uC;QAaqB,Q;QAHjB,ICt8CgD,qBAAU,CDs8C1D,
C;UAACI,OAAO,I;QACX,kBAAkB,qBAAK,CAAL,C;QACD,+B;QAAjB,iBAAc,CAAd,yB;UACI,cAAc,oBAAU
,wBAAV,EAAuB,iCAAK,KAAL,EAAuB,i

CAAK,KAAL,EAAvB,E;;QAElB,OAAO,W;O;KApBX,C;uFAuBA,yB;MAAA,uD;MAAA,4F;MAAA,oC;MAAA,
gC;MAAA,uC;QAe0B,UAEU,M;QAJhC,YAAY,wB;QACZ,IAAI,QAAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,uCA
A9B,C;QACrB,kBAAkB,sBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,oBAAU,k
CAAI,cAAJ,EAAI,sBAAJ,WAAV,EAAwB,wBAAxB,E;;QAElB,OAAO,W;O;KAnBX,C;qGAsBA,yB;MAAA,uD
;MAAA,4F;MAAA,oC;MAAA,gC;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,QAAAQ,CAAZ,C;UAAe,
MAAM,mCAA8B,uCAA9B,C;QACrB,kBAAkB,sBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;
UACI,cAAc,oBAAU,KAAV,EAAiB,iCAAI,KAAJ,EAAjB,EAA6B,wBAA7B,E;UACd,qB;;QAEJ,OAAO,W;O;K
ApBX,C;iHAuBA,yB;MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAe0B,Q;QAFtB,YAAY,wB;QACZ,IAAI,Q
AAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,sBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;
UACI,cAAc,oBAAU,KAAV,EAAiB,iCAAI,KAAJ,EAAjB,EAA6B,wBAA7B,E;UACd,qB;;QAEJ,OAAO,W;O;K
ApBX,C;mGAuBA,yB;MAAA,uD;MAAA,oC;MAAA,gC;MAAA,uC;QAgB0B,UAEU,M;QAJhC,YAAY,wB;QA
CZ,IAAI,QAAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,sBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS
,CAAhB,C;UACI,cAAc,oBAAU,kCAAI,cAAJ,EAAI,sBAAJ,WAAV,EAAwB,wBAAxB,E;;QAElB,OAAO,W;O;
KApBX,C;wFAuBA,yB;MAAA,gD;MAAA,gE;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,gD;QAgBoB,Q;QAHh
B,ICvjDgD,qBAAU,CDujD1D,C;UAAe,OAAO,OAAO,OAAP,C;QACgB,kBAAAzB,eAAa,mBAAS,CAAT,IAAb,C
;QAAiC,8B;QAA9C,af5wDO,W;Qe6wDP,kBAAkB,O;QACF,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,c
AAc,UAAU,WAAV,EAAuB,oBAAvB,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KApBX,C;sGAuB
A,yB;MAAA,gD;MAAA,gE;MAAA,mD;MAAA,oC;MAAA,gD;QAiBkB,gC;QAHd,IC/kDgD,qBAAU,CD+kD1D
,C;UAAe,OAAO,OAAO,OAAP,C;QACgB,kBAAAzB,eAAa,mBAAS,CAAT,IAAb,C;QAAiC,8B;QAA9C,afpyDO,
W;QeqyDP,kBAAkB,O;QACJ,6B;QAAA,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,cAAc,UAAU,KAAV,EAAi
B,WAAAjB,EAAa,CAAC,wBAAd,IAAjB,EAA8B,EAA8B,iCAAK,KAAL,EAA9B,C;UACd,MAAO,WAAI,WAAJ,
C;;QAEX,OAAO,M;O;KArBX,C;4FAwBA,yB;MAAA,qD;MAAA,gE;MAAA,oC;MAAA,gC;MAAA,uC;QAgB0
B,Q;QAHtB,ICtmDgD,qBAAU,CDsmD1D,C;UAAe,OAAO,W;QAClB,kB;sBAAkB,qBAAK,CAAL,CAAlB,C;Q
ACqC,kBAAxB,eAAAjB,EAAa,gBAAAhB,C;QAAgC,sBAAAI,0BAAI,0BAAJ,C;QAA7C,af5zDO,W;Qe6zDe,u
B;QAAtB,iBAAAc,CAAAd,wB;UACI,gBAAAc,oBAAU,0BAAAV,EAAAU,iCAAAA,CAAAA,KAAAA,EAAAA,sBAAAA,
WAAAA,C;;QAEJ,OAAO,W;O;KApBX,C;0GAuBA,yB;MAAA,qD;MAAA,gE;MAAA,oC;MAAA,gC;MAAA,uC;Q
AiB0B,Q;QAHtB,IC9nDgD,qBAAU,CD8nD1D,C;UAAe,OAAO,W;QAClB,kB;sBAAkB,qBAAK,CAAL,CAAlB,C;Q
ACqC,kBAAxB,eAAAjB,EAAa,gBAAAhB,C;QAAgC,sBAAAI,0BAAI,0BAAJ,C;QAA7C,afp1DO,W;Qeq1De,u
B;QAAtB,iBAAAc,CAAAd,wB;UACI,gBAAAc,oBAAU,0BAAAV,EAAAU,iCAAAA,CAAAA,KAAAA,EAAAA,sBAAAA,
WAAAA,C;;QAEJ,OAAO,W;O;KArBX,C;0EAwBA,yB;MA9FA,gD;MAAA,gE;MAAA,6C;MAAA,gC;MA8FA,gD;
QAcW,sB;;UA5FS,Q;UAHhB,ICvjDgD,qBAAU,CDujD1D,C;YAAe,qBAAO,OA+FH,OA/FG,C;YAAP,uB;;UA
CuB,kBAAAjB,eAAa,mBA8FxB,OA9FwB,CAAT,IAAb,C;UAAiC,8B;UAA9C,af5FO,W;Ue6FP,kBAA6B,O;U
ACF,0B;UAAhB,OAAgB,cAAhB,C;YAAgB,oC;YACZ,cAAc,UA4FH,OA5FG,EAAuB,oBAAvB,C;YACd,eAAO,
M;YAAP,iB;;UAEX,qBAAO,M;;;QA+EP,OAAO,mB;O;KApBX,C;wGAuBA,yB;MAtGA,gD;MAAA,gE;MAAA,mD
;MAsGA,gD;QAeW,6B;;UAnGe,gC;UAHd,IC/kDgD,qBAAU,CD+kD1D,C;YAAe,qBAAO,OAsGA,OAtGA,C;
YAAP,uB;;UACuB,kBAAAjB,eAAa,mBAqGnB,OArGmB,CAAT,IAAb,C;UAAiC,8B;UAA9C,afp1DO,W;Ueq1
DP,kBAAuB,O;UACT,6B;UAAA,mB;UAAA,kB;UAAA,kB;UAAd,0D;YACI,cAAc,UAkGH,OAlGG,EAAiB,WA
AAjB,EAAa,CAAC,wBAAd,IAAjB,EAA8B,EAA8B,iCAAK,KAAL,EAA9B,C;YACd,eAAO,M;YAAP,iB;;UAEX,
qBAAO,M;;;QAuFP,OAAO,mB;O;KArBX,C;4FAwBA,yB;MA9GA,qD;MAAA,gE;MA8GA,uC;QAeW,sB;;UA5G
S,Q;UAHtB,ICtmDgD,qBAAU,CDsmD1D,C;YAAe,qBAAO,W;YAAP,uB;;UAClB,kB;wBAAkB,qBAAK,CAA
L,CAAlB,C;UACqC,kBAAxB,eAAAjB,EAAa,gBAAAhB,C;UAAgC,sBAAAI,0BAAI,0BAAJ,C;UAA7C,af5GO,
W;Ue6Ge,uB;UAAtB,iBAAAc,CAAAd,wB;YACI,gBAAAc,oBAAU,0BAAAV,EAAAU,iCAAAA,CAAAA,KAAAA,EAA
AA,sBAAAA,WAAAA,C;;UAEJ,qBAAO,W;;;QA2FP,OAAO,mB;O;KApBX,C;4GAuBA,yB;MA9GA,qD;MAAA,g
E;MA8GA,uC;QAgBW,6B;;UA5GS,Q;UAHtB,IC9nDgD,qBAAU,CD8nD1D,C;YAAe,qBAAO,W;YAAP,uB;;
UAClB,kB;wBAAkB,qBAAK,CAAL,CAAlB,C;UACqC,kBAAxB,eAAAjB,EAAa,gBAAAhB,C;UAAgC,sBAAAI,0
BAAI,0BAAJ,C;UAA7C,afp1DO,W;Ueq1De,uB;UAAtB,iBAAAc,CAAAd,wB;YACI,gBAAAc,oBAAU,0BAAAV,
EAAAU,iCAAAA,CAAAA,KAAAA,EAAAA,sBAAAA,WAAAA,C;;UAEJ,qBAAO,W;;;QA2FP,OAAO,mB;O;K
ArBX,C;0EAwBA,yB;MAAA,gD;MAAA,gE;MAAA,6C;MAAA,gC;MAAA,gD;QAcW,sB;;UAlGS,Q;UAHhB,IC
vjDgD,qBAAU,CDujD1D,C;YAAe,qBAAO,OAAO,OAAP,C;YAAP,uB;;UACuB,kBAAAjB,eAAa,mBAAS,CA
AT,IAAb,C;UAAiC,8B;UAA9C,af5FO,W;Ue6FP,kBAA6B,O;UACF,0B;UAAhB,OAAgB,cAAhB,C;YAAgB,o
C;YACZ,cAAc,UAAU,WAAV,EAAuB,oBAAvB,C;YACd,eAAO,M;YAAP,iB;;UAEX,qBAAO,M;;;QA+EP,OA
AO,mB;O;KApBX,C;4GAuBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAgBW,6B;;UA5GS,Q;UAHtB,IC9nDg
D,qBAAU,CD8nD1D,C;YAAe,qBAAO,W;YAAP,uB;;UAClB,kB;wBAAkB,qBAAK,CAAL,CAAlB,C;UACqC,k
BAAxB,eAAAjB,EAAa,gBAAAhB,C;UAAgC,sBAAAI,0BAAI,0BAAJ,C;UAA7C,af5GO,W;Ue6Ge,uB;UAAt
B,iBAAAc,CAAAd,wB;YACI,gBAAAc,oBAAU,0BAAAV,EAAAU,iCAAAA,CAAAA,KAAAA,EAAAA,sBAAAA,WAAA
A,C;;UAEJ,qBAAO,W;;;QA2FP,OAAO,mB;O;KArBX,C;0EAwBA,yB;MAAA,gD;MAAA,gE;MAAA,6C;MA
AA,gC;MA8FA,gD;QAcW,sB;;UA5FS,Q;UAHhB,ICvjDgD,qBAAU,CDujD1D,C;YAAe,qBAAO,OAAO,O
AP,C;YAAP,uB;;UACuB,kBAAAjB,eAAa,mBAAS,CAAT,IAAb,C;UAAiC,8B;UAA9C,af5FO,W;Ue6FP,kB
AA6B,O;UACF,0B;UAAhB,OAAgB,cAAhB,C;YAAgB,oC;YACZ,cAAc,UAAU,WAAV,EAAuB,oBAAvB,C;YAC
d,eAAO,M;YAAP,iB;;UAEX,qBAAO,M;;;QA+EP,OAAO,mB;O;KApBX,C;4FAuBA,yB;MAAA,qD;MAAA,gE
;MAAA,uC;QAgBW,sB;;UA5FS,Q;UAHtB,ICtmDgD,qBAAU,CDsmD1D,C;YAAe,qBAAO,W;YAAP,uB;;U
AClB,kB;wBAAkB,qBAAK,CAAL,CAAlB,C;UACqC,kBAAxB,eAAAjB,EAAa,gBAAAhB,C;UAAgC,sBAAAI,0
BAAI,0BAAJ,C;UAA7C,af5GO,W;Ue6Ge,uB;UAAtB,iBAAAc,CAAAd,wB;YACI,gBAAAc,oBAAU,0BAAAV,E
AAAU,iCAAAA,CAAAA,KAAAA,EAAAA,sBAAAA,WAAAA,C;;UAEJ,qBAAO,W;;;QA2FP,OAAO,mB;O;KA
pBX,C;4GAuBA,yB;MAAA,SASoB,gB;MATpB,6C;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,Y;QAC
gB,0B;QAAhB,cAAhB,cAAgB,cAAhB,C;UAAgB,oC;UACZ,cAAc,cAAAO,cAAO,SAAS,oBAAT,C;;QAEJ,OA
AO,G;O;KAbX,C;4EAgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,Y;QACgB,0B
;QAAhB,OAAhB,cAAgB,cAAhB,C;UAAgB,oC;UACZ,cAAc,cAAAO,cAAO,SAAS,oBAAT,C;;QAEJ,OAAO,G
;O;KAbX,C;4EAgBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,Y;QACgB,0B;QAA
hB,OAAhB,cAAgB,cAAhB,C;UAAgB,oC;UACZ,cAAc,cAAAO,cAAO,SAAS,oBAAT,C;;QAEJ,OAAO,G;O;K
AbX,C;4EAgBA,yB;MAAA,SASoB,gB;MATpB,6C;MAAA,oC;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,Y;QAC
gB,0B;QAAhB,cAAhB,cAAO,SAAS,oBAAT,C;;QAEJ,OAAO,G;O;KAbX,C;4EAgBA,yB;MAAA,6C;MAAA,o
C;MAAA,gC;MAAA,sC;QAUoB,Q;QADhB,Y;QACgB,0B;QAAhB,OAAhB,cAAgB,cAAhB,C;UAAgB,oC;U
ACZ,cAAc,cAAAO,cAAO,SAAS,oBAAT,C;;QAEJ,OAAO,G;O;KAbX,C;4EAgBA,yB;MAAA,6C;MAAA,oC;
MAAA,gC;M7BppDA,6B;M6BopDA,sC;QAWoB,Q;Q

ADhB,U7BppDmC,c6BopDnB,C7BppDmB,C;Q6BqpDnB,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,M7
Bx9DiD,c6Bw9DjD,G7Bx9D2D,KAAK,G6Bw9DzD,SAAS,oBAAT,C7Bx9DoE,KAAX,IAAf,C;;Q6B09DrD,OA
AO,G;O;KAdX,C;4EAiBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MblqDA,+B;MakqDA,sC;QAWoB,Q;QADhB,
UbjqDqC,eAAW,oBaiqD/B,CbjqD+B,CAAX,C;QakqDrB,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,Mbt
+DmD,eas+DnD,Gbt+D8D,KAAK,Kas+D5D,SAAS,oBAAT,Cbt+DuE,KAAX,CAAhB,C;;Qaw+DvD,OAAO,G;O
;KAdX,C;IAiBA,oC;MAWI,OAAO,sBAAS,IAAT,EAAe,IAAf,EAAsC,IAAtC,C;K;IAGX,+C;MAgBI,OAAO,sBA
AS,IAAT,EAAe,IAAf,EAAsC,IAAtC,EAAwD,SAAxD,C;K;IAcsB,oC;MAAE,OAAA,EAAG,W;K;IAXtC,0C;MA
WI,OAAO,6BAAgB,IAAhB,EAASB,sBAAtB,C;K;IAGX,uD;MAgBI,OAAO,8BAAiB,IAAjB,EAAuB,IAAvB,EA
A8C,IAA9C,EAAgE,SAAhE,C;K;oFAGX,yB;MAAA,yD;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,6B;MAAA,u
C;QAUoB,Q;QAFhB,YAAY,oB;QACZ,aAAa,oB;QACG,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,IAAI
,UAAU,oBAAV,CAAJ,C;YACI,KAAM,gBAAO,OAAP,C;;YAEN,MAAO,gBAAO,OAAP,C;;;QAGf,OAAO,cAA
K,KAAL,EAAY,MAAZ,C;O;KAjBX,C;oFAoBA,yB;MAAA,yD;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,6B;M
AAA,uC;QAUoB,Q;QAFhB,YAAY,oB;QACZ,aAAa,oB;QACG,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAC
Z,IAAI,UAAU,oBAAV,CAAJ,C;YACI,KAAM,gBAAO,OAAP,C;;YAEN,MAAO,gBAAO,OAAP,C;;;QAGf,OAA
O,cAAK,KAAM,WAAX,EAAuB,MAAO,WAA9B,C;O;KAjBX,C;IAqCgD,6B;MAAE,OAAA,EAAG,W;K;IAjBr
D,2D;MAgB4C,oB;QAAA,OAAAY,C;MAAG,8B;QAAA,iBAAA0B,K;MACjF,OAAO,sBAAS,IAAT,EAAe,IAAf,E
AAqB,cAArB,EAAqC,eAArC,C;K;IAGX,sE;MAkBgD,oB;QAAA,OAAAY,C;MAAG,8B;QAAA,iBAAA0B,K;MAQ
hE,Q;MAPrB,oBAAoB,IAApB,EAA0B,IAA1B,C;MACA,eAAe,SAAK,O;MACpB,qBAAqB,YAAW,IAAX,SAAs
B,WAAW,IAAX,KAAmB,CAAvB,GAA0B,CAA1B,GAAiC,CAAnD,K;MACrB,aAAa,iBAAA,cAAb,C;MACb,Y
AAY,C;MACZ,OAAgB,CAAT,qBAAiB,QAAxB,C;QACI,UAAU,QAAAQ,IAAR,I;QACO,IAAI,MAAAM,CAAN,IA
AW,MAAM,QAAArB,C;MACj,C;;UAAa,U;;;;;;;;;;;;;;;;;;;;;;;;

ADhB,U7BppDmC,c6BopDnB,C7BppDmB,C;Q6BqpDnB,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,M7
Bx9DiD,c6Bw9DjD,G7Bx9D2D,KAAK,G6Bw9DzD,SAAS,oBAAT,C7Bx9DoE,KAAX,IAAf,C;;Q6B09DrD,OA
AO,G;O;KAdX,C;4EAiBA,yB;MAAA,6C;MAAA,oC;MAAA,gC;MblqDA,+B;MakqDA,sC;QAWoB,Q;QADhB,
UbjqDqC,eAAW,oBaiqD/B,CbjqD+B,CAAX,C;QakqDrB,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,Mbt
+DmD,eas+DnD,Gbt+D8D,KAAK,Kas+D5D,SAAS,oBAAT,Cbt+DuE,KAAX,CAAhB,C;;Qaw+DvD,OAAO,G;O
;KAdX,C;IAiBA,oC;MAWI,OAAO,sBAAS,IAAT,EAAe,IAAf,EAAsC,IAAtC,C;K;IAGX,+C;MAgBI,OAAO,sBA
AS,IAAT,EAAe,IAAf,EAAsC,IAAtC,EAAwD,SAAxD,C;K;IAcsB,oC;MAAE,OAAA,EAAG,W;K;IAXtC,0C;MA
WI,OAAO,6BAAgB,IAAhB,EAASB,sBAAtB,C;K;IAGX,uD;MAgBI,OAAO,8BAAiB,IAAjB,EAAuB,IAAvB,EA
A8C,IAA9C,EAAgE,SAAhE,C;K;oFAGX,yB;MAAA,yD;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,6B;MAAA,u
C;QAUoB,Q;QAFhB,YAAY,oB;QACZ,aAAa,oB;QACG,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UACZ,IAAI
,UAAU,oBAAV,CAAJ,C;YACI,KAAM,gBAAO,OAAP,C;;YAEN,MAAO,gBAAO,OAAP,C;;;QAGf,OAAO,cAA
K,KAAL,EAAY,MAAZ,C;O;KAjBX,C;oFAoBA,yB;MAAA,yD;MAAA,6C;MAAA,oC;MAAA,gC;MAAA,6B;M
AAA,uC;QAUoB,Q;QAFhB,YAAY,oB;QACZ,aAAa,oB;QACG,0B;QAAhB,OAAgB,cAAhB,C;UAAgB,oC;UAC
Z,IAAI,UAAU,oBAAV,CAAJ,C;YACI,KAAM,gBAAO,OAAP,C;;YAEN,MAAO,gBAAO,OAAP,C;;;QAGf,OAA
O,cAAK,KAAM,WAAX,EAAuB,MAAO,WAA9B,C;O;KAjBX,C;IAqCgD,6B;MAAE,OAAA,EAAG,W;K;IAjBr
D,2D;MAgB4C,oB;QAAA,OAAA4C,C;MAAG,8B;QAAA,iBAAA0B,K;MACjF,OAAO,sBAAS,IAAT,EAAe,IAAf,E
AAqB,cAArB,EAAqC,eAArC,C;K;IAGX,sE;MAkBgD,oB;QAAA,OAAA4C,C;MAAG,8B;QAAA,iBAAA0B,K;MAQ
hE,Q;MAPrB,oBAAoB,IAApB,EAA0B,IAA1B,C;MACA,eAAe,SAAK,O;MACpB,qBAAqB,YAAW,IAAX,SAAs
B,WAAW,IAAX,KAAmB,CAAvB,GAA0B,CAA1B,GAAiC,CAAnD,K;MACrB,aAAa,iBAAA,cAAb,C;MACb,Y
AAY,C;MACZ,OAAgB,CAAT,qBAAiB,QAAxB,C;QACI,UAAU,QAAAQ,IAAR,I;QACO,IAAI,MAAAM,CAAN,IA
AW,MAAM,QAAArB,C;

AUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,C
AAJ,C;K;4FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;
MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAUI,OAAO,sBAAI,
CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,q
B;MAUI,OAAO,sBAAI,CAAJ,C;K;4FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBA
AI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;6FAGX,qB;MAUI,OAAO,sBAAI,CAAJ,C;K;uGAuC
X,yB;MA8gHI,8D;MA9gHJ,iD;QASe,oBAAS,C;QAAT,S;UAAc,gBAqgHT,cAAR,iBAAQ,C;;QArgHhB,OAAO,
OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KATjE,C;uGAYA,yB;MA0gHI,8D;MA1gHJ,iD;QASe,o
BAAS,C;QAAT,S;UAAc,gBAigHT,cAAR,iBAAQ,C;;QAjgHhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,a
AAa,KAAb,C;O;KATjE,C;uGAYA,yB;MAsgHI,8D;MAtgHJ,iD;QASe,oBAAS,C;QAAT,S;UAAc,gBA6/GT,cAA
R,iBAAQ,C;;QA7/GhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KATjE,C;uGAYA,yB;M
AkgHI,8D;MAlgHJ,iD;QASe,oBAAS,C;QAAT,S;UAAc,gBAy/GT,cAAR,iBAAQ,C;;QAz/GhB,OAAO,OAAsC,s
BAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KATjE,C;uGAYA,yB;MAAA,sD;MAAA,mC;QASI,OAAY,UAA
L,SAAK,EAAU,KAAV,C;O;KAThB,C;uGAYA,yB;MAAA,sD;MAAA,mC;QASI,OAAY,UAAL,SAAK,EAAU,K
AAV,C;O;KAThB,C;uGAYA,yB;MAAA,sD;MAAA,mC;QASI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAThB
,C;uGAYA,yB;MAAA,sD;MAAA,mC;QASI,OAAY,UAAL,SAAK,EAAU,KAAV,C;O;KAThB,C;iFAYA,gC;MA
SW,sB;;QA8NS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA9NH,SA8NO,CAAU,OAAV,CA
AJ,C;YAAwB,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MA/NP,yB;K;iFAGJ,gC;MASW,sB;;QA6NS,Q;QAAA,
2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IA7NH,SA6NO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;
YAAP,uB;;;QAC9C,qBAAO,I;;;MA9NP,yB;K;iFAGJ,gC;MASW,sB;;QA4NS,Q;QAAA,2B;QAAhB,OAAgB,cAA
hB,C;UAAgB,yB;UAAM,IA5NH,SA4NO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;;QAC9C,qBA
AO,I;;;MA7NP,yB;K;iFAGJ,gC;MASW,sB;;QA2NS,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAA
M,IA3NH,SA2NO,CAAU,OAAV,CAAJ,C;YAAwB,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MA5NP,yB;K;yF
AGJ,yB;MA4nBA,+C;MAkuFI,0D;MA91GJ,uC;QASW,qB;;UA4nBO,Q;UAAA,OAAa,SAytFX,YAAR,iBAAQ,C
AztFW,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,sBAAK,KAAL,C;YACd,IA9nBc,SA8nBV,CAA
U,OAAV,CAAJ,C;cAAwB,qBAAO,O;cAAP,uB;;;UAE5B,IAE5B,oBAAO,I;;;QAhoBP,wB;O;KATJ,C;yFAYA,yB;MAgo
BA,+C;MA0tFI,0D;MA11GJ,uC;QASW,qB;;UAgoBO,Q;UAAA,OAAa,SAitFX,YAAR,iBAAQ,CAjtFW,CAAb,
W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,sBAAK,KAAL,C;YACd,IAloBc,SAkoBV,CAAU,OAAV,CAAJ
,C;cAAwB,qBAAO,O;cAAP,uB;;;UAE5B,IApoBP,oBAAO,I;;;QApoBP,wB;O;KATJ,C;yFAYA,+C;MAktFI,
0D;MAt1GJ,uC;QASW,qB;;UAootFX,YAAR,iBAAQ,CAzsFW,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV
,cAAc,sBAAK,KAAL,C;YACd,IAtoBc,SAsoBV,CAAU,OAAV,CAAJ,C;cAAwB,qBAAO,O;cAAP,uB;;;UAE5B,
oBAAO,I;;;QAxoBP,wB;O;KATJ,C;yFAYA,+C;MA0sFI,0D;MAl1GJ,uC;QASW,qB;;UAwoBO,Q;UAAA,OAAa,
SAisFX,YAAR,iBAAQ,CAjsFW,CAAb,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,cAAc,sBAAK,KAAL,C;YA
Cd,IA1oBc,SA0oBV,CAAU,OAAV,CAAJ,C;cAAwB,qBAAO,O;cAAP,uB;;;UAE5B,IA5oBP,oBAAO,I;;;QA5o
BP,wB;O;KATJ,C;mFAYA,yB;MAAA,8C;MncCpHA,6B;MmmCoHA,4B;QAQI,OnClHmC,cmCkHpB,MAAR,iB
AAQ,CnClHoB,C;O;KmC0GvC,C;mFAWA,yB;MAAA,8C;MnBhHA,+B;MmmBgHA,4B;QAQI,OnB9GsC,emB8G
vB,MAAR,iBAAQ,CnB9GuB,C;O;KmBsG1C,C;mFAWA,yB;MAAA,8C;MpCxLA,+B;MoCwLA,4B;QAQI,OpCt
LsC,eoCsLvB,MAAR,iBAAQ,CpCtLuB,C;O;KoC8K1C,C;mFAWA,yB;MAAA,8C;MlCtLA,iC;MkCsLA,4B;QAQ
I,OlClPlyC,gBkCoLL1B,MAAR,iBAAQ,ClClPL0B,C;O;KkCk4K7C,C;mFAWA,yB;MAAA,iE;MAAA,uC;QAQoB,
Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAAO,O
O,;;QACrD,MAAM,gCAAuB,mDAAvB,C;O;KATV,C;mFAYA,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,2B;Q
AAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAAO,OAAO,O;;QAC
rD,MAAM,gCAAuB,mDAAvB,C;O;KATV,C;mFAYA,yB;MAAA,iE;MAAA,uC;QAAA,2B;QAAhB,OAAgB,cAA
hB,C;UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAAO,OAAO,O;;QACrD,MAAM,gCAAu
B,mDAAvB,C;O;KATV,C;mFAYA,yB;MAAA,iE;MAAA,uC;QAQoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UAAM,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAAO,OAAO,O;;QACrD,MAAM,gCAAuB,mDA
AvB,C;O;KATV,C;IAYA,mC;MAMI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;IAGpC,mC;MA
MI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;IAGpC,mC;MAMI,OAAW,mBAAJ,GAAe,IAAf,G

AAyB,sBAAK,CAAL,C;K;IAGpC,mC;MAMI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,CAAL,C;K;+FAGp
C,gC;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAA
wB,OAAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Q
AAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;+FAGX,gC;MAOoB,Q;MAAA,2B;
MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,O;;MACrD,OAA
O,I;K;+FAGX,gC;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,C
AAJ,C;UAAwB,OAAO,O;;MACrD,OAAO,I;K;2FAGX,yB;MAkqGI,8D;MAlqGJ,iD;QAOe,oBAAS,C;QAAT,S;U
AAc,gBA2pGT,cAAR,iBAAQ,C;;QA3pGhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;K
APjE,C;2FAUA,yB;MAgqGI,8D;MAhqGJ,iD;QAOe,oBAAS,C;QAAT,S;UAAc,gBAypGT,cAAR,iBAAQ,C;;QAz
pGhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;2FAUA,yB;MA8pGI,8D;MA9p
GJ,iD;QAOe,oBAAS,C;QAAT,S;UAAc,gBAupGT,cAAR,iBAAQ,C;;QAvpGhB,OAAO,OAAsC,sBAAI,KAAJ,C
AAtC,GAAsD,aAAa,KAAb,C;O;KAPjE,C;2FAUA,yB;MA4pGI,8D;MA5pGJ,iD;QAOe,oBAAS,C;QAAT,S;UAA
c,gBAqpGT,cAAR,iBAAQ,C;;QArpGhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,aAAa,KAAb,C;O;KAPjE
,C;IAUA,wC;MAQe,oBAAS,C;MAAT,S;QAAc,gBAknGT,gBAAR,iBAAQ,C;;MAlnGhB,OAAO,OAAsC,sBAAI,
KAAJ,CAAtC,GAAsD,I;K;IAGjE,wC;MAQe,oBAAS,C;MAAT,S;QAAc,gBA+mGT,gBAAR,iBAAQ,C;;MA/mG
hB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,wC;MAQe,oBAAS,C;MAAT,S;QAAc,gBA4mGT,g
BAAR,iBAAQ,C;;MA5mGhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,I;K;IAGjE,wC;MAQe,oBAAS,C;M
AAT,S;QAAc,gBAymGT,gBAAR,iBAAQ,C;;MAzmGhB,OAAO,OAAsC,sBAAI,KAAJ,CAAtC,GAAsD,I;K;uFA
GjE,yB;MAAA,kD;MAAA,qC;QAOI,OAAe,QAAR,iBAAQ,EAAQ,OnCtdU,KmCsdlB,C;O;KAPnB,C;uFAUA,yB
;MAAA,kD;MAAA,qC;QAOI,OAAe,QAAR,iBAAQ,EAAQ,OnBrdY,KmBqdpB,C;O;KAPnB,C;uFAUA,yB;MAA
A,kD;MAAA,qC;QAOI,OAAe,QAAR,iBAAQ,EAAQ,OpClhBY,KoCkhBpB,C;O;KAPnB,C;uFAUA,yB;MAAA,k
D;MAAA,qC;QAOI,OAAe,QAAR,iBAAQ,EAAQ,OlCjhBc,KkCihBtB,C;O;KAPnB,C;iGAUA,yB;MAAA,sC;Mn
C5ZA,6B;MmC4ZA,0BAOgC,yB;QnCnahC,6B;emCmagC,6B;UAAA,qB;YAAE,yBnCzZK,cmCyZK,EnCzZL,C
mCyZL,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UtC40Bf,0D;YACI,IsC70B0B,UnCzZK,cH
suCjB,YAAK,KAAL,CGtuCiB,CmCyZL,CtC60B1B,C;cACI,sBAAO,K;cAAP,wB;;;UAGR,sBAAO,E;;;QsCj1BP,
0B;O;KAPJ,C;iGAUA,yB;MAAA,sC;MnBvZA,+B;MmBBuZA,0BAOgC,yB;QnB9ZhC,+B;emB8ZgC,6B;UAAA,q
B;YAAE,yBnBpZK,cmBoZK,EnBpZF,CmBoZR,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;Ut
C80Bf,0D;YACI,IsC/0B0B,UnBpZQ,enBmuCpB,YAAK,KAAL,CmBnuCoB,CmBoZR,CtC+0B1B,C;cACI,sBAA
O,K;cAAP,wB;;;UAGR,sBAAO,E;;;QsCn1BP,0B;O;KAPJ,C;iGAUA,yB;MAAA,sC;MpC9dA,+B;MoC8cA,0BA
OgC,yB;QpCrehC,+B;eoCqegC,6B;UAAA,qB;YAAE,yBpC3dQ,eoC2dE,EpC3dF,CoC2dR,C;W;S;OAAF,C;MAP
hC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UtCgyBf,0D;YACI,IsCjyB0B,UpC3dQ,eF4vCpB,YAAK,KAAL,CE5vCo
B,CoC2dR,CtCiyB1B,C;cACI,sBAAO,K;cAAP,wB;;;UAGR,sBAAO,E;;;QsCryBP,0B;O;KAPJ,C;iGAUA,yB;MA
AA,sC;MlC3dA,iC;MkC2cA,0BAOgC,yB;QlClehC,iC;ekCkegC,6B;UAAA,qB;YAAE,yBlCxdW,gBkCwdD,ElCx
dC,CkCwdX,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UtCkyBf,0D;YACI,IsCnyB0B,UlCxdW,
gBJ2vCvB,YAAK,KAAL,CI3vCuB,CkCwdX,CtCmyB1B,C;cACI,sBAAO,K;cAAP,wB;;;UAGR,sBAAO,E;;;Q
sCvyBP,0B;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCm5BA,0D;MAAA,+C;MGv1CA,6B;MmmCocA,yBAO+B,yB;Q
nC3c/B,6B;emC2c2c+B,6B;UAAA,qB;YAAE,yBnCjcM,cmCicI,EnCjcJ,CmCicN,C;W;S;OAAF,C;MAP/B,uC;QAO
mB,kBAAR,iB;QAAQ,sB;;UtCg5BD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAd,OAAc,cAAd,C;YAAc,u
B;YACV,IsCj5ByB,UnCjcM,cHk1CjB,YAAK,KAAL,CGl1CiB,CmCicN,CtCi5BzB,C;cACI,qBAAO,K;cAAP,uB;
;;UAGR,qBAAO,E;;;QsCr5BP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCq5BA,0D;MAAA,+C;MMmBp1CA,+B;M
mmB+bA,yBAO+B,yB;QnB9b/B,+B;emB8btc+B,6B;UAAA,qB;YAAE,yBnBpbS,cmBobD,EnBpbC,CmBobN,C;W
;S;OAAF,C;MAP/B,uC;QAOmB,kBAAR,iB;QAAQ,sB;;UtCk5BD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UA
Ad,OAAc,cAAd,C;YAAc,uB;YACV,IsCn5ByB,UnBpbS,enB+0CpB,YAAK,KAAL,CmB/0CoB,CmBobN,CtCm5B
zB,C;cACI,qBAAO,K;cAAP,uB;;;UAGR,qBAAO,E;;;QsCv5BP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCu2B
A,0D;MAAA,+C;MME72CA,+B;MoCsgBA,yBAO+B,yB;QpC7gB/B,+B;eoC6gBtc+B,6B;UAAA,qB;YAAE,yBpCnge
BS,eoCmgBC,EpCngBD,CoCmgBT,C;W;S;OAAF,C;MAP/B,uC;QAOmB,kBAAR,iB;QAAQ,sB;;UtCo2BD,Q;U
AAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAd,OAAc,cAAd,C;YAAc,uB;YACV,IsCr2ByB,UpCngbS,eFw2CpB,
YAAK,KAAL,CEx2CoB,CoCmgBT,CtCq2BzB,C;cACI,qBAAO,K;cAAP,uB;;;UAGR,qBAAO,E;;;QsCz2BP,yB;

O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCy2BA,0D;MAAA,+C;MI52CA,iC;MkCmgBA,yBAO+B,yB;QlC1gB/B,iC;e
kC0gB+B,6B;UAAA,qB;YAAE,yBlChgBY,gBkCggBF,ElChgBE,CkCggBZ,C;W;S;OAAF,C;MAP/B,uC;QAOmB
,kBAAR,iB;QAAQ,sB;;UtCs2BD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAd,OAAc,cAAd,C;YAAc,uB;Y
ACV,IsCv2ByB,UlChgBY,gBJu2CvB,YAAK,KAAL,CIv2CuB,CkCggBZ,CtCu2BzB,C;cACI,qBAAO,K;cAAP,u
B;;;UAGR,qBAAO,E;;;QsC32BP,yB;O;KAPJ,C;iFAUA,yB;MAAA,4C;MnC5eA,6B;MmC4eA,4B;QAWI,OnC7e
mC,cmC6epB,KAAR,iBAAQ,CnC7eoB,C;O;KmCkevC,C;iFAcA,yB;MAAA,4C;MnB3eA,+B;MmB2eA,4B;QAW
I,OnB5esC,emB4evB,KAAR,iBAAQ,CnB5euB,C;O;KmBie1C,C;iFAcA,yB;MAAA,4C;MpCtjBA,+B;MoCsjBA,4
B;QAWI,OpCvjBsC,eoCujBvB,KAAR,iBAAQ,CpCvjBuB,C;O;KoC4iB1C,C;iFAcA,yB;MAAA,4C;MlCvjBA,iC;
MkCujBA,4B;QAWI,OlCxjByC,gBkCwjB1B,KAAR,iBAAQ,ClCxjB0B,C;O;KkC6iB7C,C;iFAcA,yB;MAAA,+C;
MAAA,iE;MA83FI,0D;MA93FJ,uC;QAWkB,Q;QAAA,OAAa,SAm3FX,YAn3FF,SAm3FN,QAAQ,CAn3FW,CA
Ab,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YA
AwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAfV,C;iFAkBA,yB;MAAA,+C;MAAA,iE;MAo3FI,0
D;MAp3FJ,uC;QAWkB,Q;QAAA,OAAa,SAy2FX,YAz2FF,SAy2FN,QAAQ,CAz2FW,CAAb,W;QAAd,OAAc,cA
Ad,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,
MAAM,gCAAuB,mDAAvB,C;O;KAfV,C;iFAkBA,yB;MAAA,+C;MAAA,iE;MA02FI,0D;MA12FJ,uC;QAWkB,
Q;QAAA,OAAa,SA+1FX,YA/1FF,SA+1FN,QAAQ,CA/1FW,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,c
AAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDA
AvB,C;O;KAfV,C;iFAkBA,yB;MAAA,+C;MAAA,iE;MAg2FI,0D;MAh2FJ,uC;QAWkB,Q;QAAA,OAAa,SAq1F
X,YAr1FF,SAq1FN,QAAQ,CAr1FW,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;
UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,MAAM,gCAAuB,mDAAvB,C;O;KAfV,C;+FAk
BA,yB;MAAA,0D;MAAA,qC;QAOI,OAAe,YAAR,iBAAQ,EAAY,OnC9sBM,KmC8sBlB,C;O;KAPnB,C;+FAU
A,yB;MAAA,0D;MAAA,qC;QAOI,OAAe,YAAR,iBAAQ,EAAY,OnB7sBQ,KmB6sBpB,C;O;KAPnB,C;+FAUA,
yB;MAAA,0D;MAAA,qC;QAOI,OAAe,YAAR,iBAAQ,EAAY,OpC1wBQ,KoC0wBpB,C;O;KAPnB,C;+FAUA,y
B;MAAA,0D;MAAA,qC;QAOI,OAAe,YAAR,iBAAQ,EAAY,OlCzwBU,KkCywBtB,C;O;KAPnB,C;IAUA,kC;M
AQI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,iBAAO,CAAP,IAAL,C;K;IAGpC,kC;MAQI,OAAW,mBAAJ,
GAAe,IAAf,GAAyB,sBAAK,iBAAO,CAAP,IAAL,C;K;IAGpC,kC;MAQI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,s
BAAK,iBAAO,CAAP,IAAL,C;K;IAGpC,kC;MAQI,OAAW,mBAAJ,GAAe,IAAf,GAAyB,sBAAK,iBAAO,CAAP
,IAAL,C;K;6FAGpC,yB;MAAA,+C;MAkuFI,0D;MAluFJ,uC;QASkB,Q;QAAA,OAAa,SAytFX,YAztFF,SAytFN,
QAAQ,CAztFW,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,
OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAbX,C;6FAgBA,yB;MAAA,+C;MA0tFI,0D;MA1tFJ,u
C;QASkB,Q;QAAA,OAAa,SAitFX,YAjtFF,SAitFN,QAAQ,CAjtFW,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;U
ACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAbX
,C;6FAgBA,yB;MAAA,+C;MAktFI,0D;MAltFJ,uC;QASkB,Q;QAAA,OAAa,SAysFX,YAzsFF,SAysFN,QAAQ,C
AzsFW,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,cAAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,C
AAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAbX,C;6FAgBA,yB;MAAA,+C;MA0sFI,0D;MA1sFJ,uC;QASk
B,Q;QAAA,OAAa,SAisFX,YAjsFF,SAisFN,QAAQ,CAjsFW,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,c
AAc,sBAAK,KAAL,C;UACd,IAAI,UAAU,OAAV,CAAJ,C;YAAwB,OAAO,O;;QAEnC,OAAO,I;O;KAbX,C;qF
AgBA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;qFAYA,yB;MAAA,mC;
MAAA,gD;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;qFAYA,yB;MAAA,mC;MAAA,gD;MAAA,4B
;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;qFAYA,yB;MAAA,mC;MAAA,gD;MAAA,4B;QASI,OAAO,kBAAO
,cAAP,C;O;KATX,C;IAYA,sC;MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,iBAAvB,C;MACV,OAAO,sBAA
I,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,sC;MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,iBAAvB,C;MAC
V,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,sC;MAQI,IAAI,mBAAJ,C;QACI,MAAM,2BAAuB,iB
AAvB,C;MACV,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;iGAGX,yB;MAAA,mC;MAA
A,4D;MAAA,4B;QAQI,OAAO,wBAAa,cAAb,C;O;KARX,C;iGAWA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QA
QI,OAAO,wBAAa,cAAb,C;O;KARX,C;iGAWA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAQI,OAAO,wBAAa,c
AAb,C;O;KARX,C;iGAWA,yB;MAAA,mC;MAAA,4D;MAAA,4B;QAQI,OAAO,wBAAa,cAAb,C;O;KARX,C;I

AWA,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;IAGX,4C;MAOI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAO,sBAAI,MAAO,iBAAQ,cAAR,CAAX,C;K;qFAGX,yB;MAAA,gD;MnCh8BA,6B;MmCg8BA,4B;QAOI,OnC77BmC,cmC67BpB,OAAR,iBAAQ,CnC77BoB,C;O;KmCs7BvC,C;qFAUA,yB;MAAA,gD;MnB37BA,+B;MmB27BA,4B;QAOI,OnBx7BsC,emBw7BvB,OAAR,iBAAQ,CnBx7BuB,C;O;KmBi7B1C,C;qFAUA,yB;MAAA,gD;MpClgCA,+B;MoCkgCA,4B;QAOI,OpC//BsC,eoC+/BvB,OAAR,iBAAQ,CpC//BuB,C;O;KoCw/B1C,C;qFAUA,yB;MAAA,gD;MlC//BA,iC;MkC+/BA,4B;QAOI,OlC5/ByC,gBkC4/B1B,OAAR,iBAAQ,ClC5/B0B,C;O;KkkCq9B7C,C;qFAUA,yB;MAAA,kF;MAAA,iE;MAAA,wB;MAAA,8B;MAAA,uC;QASoB,UAST,M;QAXP,aAAoB,I;QACpB,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,0D;O;KAlBX,C;qFAqBA,yB;MAAA,kF;MAAA,iE;MAAA,0B;MAAA,8B;MAAA,uC;QASoB,UAST,M;QAXP,aAAqB,I;QACrB,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,2D;O;KAlBX,C;qFAqBA,yB;MAAA,kF;MAAA,iE;MAAA,0B;MAAA,8B;MAAA,uC;QASoB,UAST,M;QAXP,aAAqB,I;QACrB,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,2D;O;KAlBX,C;qFAqBA,yB;MAAA,kF;MAAA,iE;MAAA,4B;MAAA,8B;MAAA,uC;QASoB,UAST,M;QAXP,aAAsB,I;QACtB,YAAY,K;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,IAAI,UAAU,OAAV,CAAJ,C;YACI,IAAI,KAAJ,C;cAAW,MAAM,8BAAyB,gDAAzB,C;YACjB,SAAS,O;YACT,QAAQ,I;;;QAGhB,IAAI,CAAC,KAAL,C;UAAY,MAAM,gCAAuB,mDAAvB,C;QAElB,OAAO,4D;O;KAlBX,C;IAqBA,oC;MAMI,OAAW,mBAAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,oC;MAMI,OAAW,mBAAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,oC;MAMI,OAAW,mBAAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;IAGvC,oC;MAMI,OAAW,mBAAQ,CAAZ,GAAe,sBAAK,CAAL,CAAf,GAA4B,I;K;iGAGvC,gC;MASoB,Q;MAFhB,aAAoB,I;MACpB,YAAY,K;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGX,gC;MASoB,Q;MAFhB,aAAqB,I;MACrB,YAAY,K;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;iGAGhB,gC;MASoB,Q;MAFhB,aAAsB,I;MACtB,YAAY,K;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,UAAU,OAAV,CAAJ,C;UACI,IAAI,KAAJ,C;YAAW,OAAO,I;UAClB,SAAS,O;UACT,QAAQ,I;;;MAGhB,IAAI,CAAC,KAAL,C;QAAY,OAAO,I;MACnB,OAAO,M;K;IAGX,+B;MxBrhDI,IAAI,EwB+hDI,KAAK,CxB/hDT,CAAJ,C;QACI,cwB8hDc,sD;QxB7hDd,MAAM,gCAAyB,OAAQ,WAAjC,C;O;IwB8hDV,OAAW,SAAS,wB;MAAM,gCAAyB,OAAQ,WAAjC,C;;;MwB8hDV,OAAW,uBAAoB,gBAAV,iBAAO,CAAP,C;K;K;IAGX,+B;MxBrhDI,IAAI,EwB+hDI,KAAK,CxB/hDT,CAAJ,C;QACI,cwB8hDc,sD;QxB7hDd,MAAM,gCAAyB,OAAQ,WAAjC,C;O;IwB8hDV,OAAW,SAAS,wB;MAAM,gCAAyB,OAAQ,WAAjC,C;;;MwB8hDV,OAAW,uBAAoB,gBAAV,iBAAO,CAAP,C;K;K;IAGX,+B;MxBrhDI,IAAI,EwB+hDI,KAAK,CxB/hDT,CAAJ,C;QACI,cwB8hDc,sD;QxB7hDd,MAAM,gCAAyB,OAAQ,WAAjC,C;O;IwB8hDV,OAAW,SAAS,wB;MAAM,gCAAyB,OAAQ,WAAjC,C;;;MwB8hDV,OAAW,uBAAoB,gBAAV,iBAAO,CAAP,C;K;K;IAGX,+B;MxBrhDI,IAAI,EwB+hDI,KAAK,CxB/hDT,CAAJ,C;QACI,cwB8hDc,sD;QxB7hDd,MAAM,gCAAyB,OAAQ,WAAjC,C;O;IwB8hDV,OAAW,SAAS,wB;MAAM,gCAAyB,OAAQ,WAAjC,C;;;MwB8hDV,OAAW,uBAAoB,gBAAV,iBAAO,CAAP,C;K;K;IAGX,mC;MxB3hDI,IAAI,EwBuiDI,KAAK,CxBviDT,CAAJ,C;QACI,cwBsiDc,sD;QxBriDd,MAAM,gCAAyB,OAAQ,WAAjC,C;O;IwBsiDV,OAAW,mBAAoB,gBAAV,iBAAO,CAAP,C;K;K;MxBzhDI,IAAI,EwBuiDI,KAAK,CxBviDT,CAAJ,C;QACI,cwBsiDc,sD;QxBriDd,MAAM,gCAAyB,OAAQ,WAAjC,C;;;MwBsiDV,OAAW,mBAAoB,gBAAV,iBAAO,CAAP,C;K;K;IAGX,mC;MxB3hDI,IAAI,EwBuiDI,KAAK,CxBviDT,CAAJ,C;QACI,cwBsiDc,sD;QxBriDd,MAAM,gCAAyB,OAAQ,WAAjC,C;O;IwBsiDV,OAAW,mBAAoB,gBAAV,iBAAO,CAAP,C;K;K;MxBzhDI,IAAI,EwBuiDI,KAAK,CxBviDT,CAAJ,C;QACI,cwBsiDc,sD;QxBriDd,MAAM,gCAAyB,OAAQ,WAAjC,C;;;MwBsiDV,OAAW,mBAAoB,gBAAV,iBAAO,CAAP,C;K;K;IAGX,mC;MxB3hDI,IAAI,EwBuiDI,KAAK,CxBviDT,CAAJ,C;QACI,cwBsiDc,sD;QxBriDd,MAAM,gCAAyB,OAAQ,WAAjC,C;;;MwBsiDV,OAAW,mBAAoB,gBAAV,iBAAO,CAAP,C;K;K;IAGX,mC;MxB3hDI,IAAI,EwBuiDI,KAAK,CxBviDT,CAAJ,C;QACI,cwBsiDc,sD;QxBriDd,MAAM,gCAAyB,OAAQ,WAAjC,C;;;MwBsiDV,OAAW,mBAAoB,gBAAV,iBAAO,CAAP,C;K;K;IAGX,mC;MxB3hDI,IAAI,EwBuiDI,KAAK,CxBviDT,CAAJ,C;QACI,cwBsiDc,sD;QxBriDd,MAAM,gCAAyB,OAAQ,WAAjC,C;O;IwBsiDV,OAAW,mBAAoB,gBAAV,iBAAO,CAAP,C;K;K;MxBzhDI,IAAI,EwBuiDI,KAAK,CxBviDT,CAAJ,C;QACI,cwBsiDc,sD;QxBriDd,MAAM,gCAAyB,OAAQ,WAAjC,C;;;MwBsiDV,OAAW,mBAAoB,gBAAV,iBAAO,CAAP,C;K;K;IAGX,mC;MxB3hDI,IAAI,EwBuiDI,KAAK,CxBviDT,CAAJ,C;QACI,cwBsiDc,sD;QxBriDd,MAAM,gCAAyB,OAAQ,WAAjC,C;O;IwBsiDV,OAAW,mBAAoB,gBAAV,iBAAO,CAAP,C;K;K;MxBzhDI,IAAI,EwBuiDI,KAAK,CxBviDT,CAAJ,C;QACI,cwBsiDc,sD;QxBriDd,MAAM,gCAAyB,OAAQ,WAAjC,C;;;MwBsiDV,OAAW,mBAAoB,gBAAV,iBAAO,CAAP,C;K;K;IA

AI,EwBmnDI,KAAK,CxBnnDT,CAAJ,C;QACI,cwBknDc,sD;QxBjnDd,MAAM,gCAAyB,OAAQ,WAAjC,C;;Mw
BknDV,OAAO,mBAAgB,gBAAV,iBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;IAGX,mC;MxBvnDI,IAAI,E
wBioDI,KAAK,CxBjoDT,CAAJ,C;QACI,cwBgoDc,sD;QxB/nDd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MwBgoD
V,OAAO,mBAAgB,gBAAV,iBAAO,CAAP,IAAU,EAAc,CAAd,CAAhB,C;K;mGAGX,yB;MAAA,4C;MAAA,qD
;MAkqEI,8D;MAlqEJ,uC;QASI,iBAypEgB,cAAR,iBAAQ,CAzpEhB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UA
AU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,W;O;KAdX,C
;mGAiBA,yB;MAAA,4C;MAAA,qD;MAypEI,8D;MAzpEJ,uC;QASI,iBAgpEgB,cAAR,iBAAQ,CAhpEhB,WAA+
B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,W;O;KAdX,C;mGAiBA,yB;MAAA,4C;MAAA,qD;MAgpEI,8D;MAhpEJ,uC;QASI,iBAuoE
gB,cAAR,iBAAQ,CAvoEhB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YA
CI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,W;O;KAdX,C;mGAiBA,yB;MAAA,4C;MAAA,qD;M
AuoEI,8D;MAvoEJ,uC;QASI,iBA8nEgB,cAAR,iBAAQ,CA9nEhB,WAA+B,CAA/B,U;UACI,IAAI,CAAC,UAAU
,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,W;O;KAdX,C;2F
AiBA,yB;MAAA,+D;MAAA,uC;QAWiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACE,2B;QAAb,OAAa,cAAb,C;
UAAa,sB;UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,IAAV,CAAL,C;YACD,I
AAK,WAAI,IAAJ,C;YACL,WAAW,I;;;QAEnB,OAAO,I;O;KAlBX,C;2FAqBA,yB;MAAA,+D;MAAA,uC;QAWi
B,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACE,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,QAAJ,C;YACI,IA
AK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;;Q
AEnB,OAAO,I;O;KAlBX,C;2FAqBA,yB;MAAA,+D;MAAA,uC;QAWiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;Q
ACE,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,U
AAU,IAAV,CAAL,C;YACD,IAAK,WAAI,IAAJ,C;YACL,WAAW,I;;;QAEnB,OAAO,I;O;KAlBX,C;2FAqBA,yB
;MAAA,+D;MAAA,uC;QAWiB,Q;QAFb,eAAe,K;QACf,WAAW,gB;QACE,2B;QAAb,OAAa,cAAb,C;UAAa,sB;
UACT,IAAI,QAAJ,C;YACI,IAAK,WAAI,IAAJ,C;eACJ,IAAI,CAAC,UAAU,IAAV,IAAV,CAAL,C;YACD,IAAK,WAA
I,IAAJ,C;YACL,WAAW,I;;;QAEnB,OAAO,I;O;KAlBX,C;qFAqBA,yB;MAAA,+D;MAAA,uC;QASW,kBAAS,g
B;QAgRA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAhRa,SAgRT,CAAU,OAAV,CAAJ,C;Y
AAwB,WAAY,WAAI,OAAJ,C;;QAhR1D,OAiRO,W;O;KA1RX,C;qFAYA,yB;MAAA,+D;MAAA,uC;QASW,kB
AAS,gB;QAiRA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAjRa,SAiRT,CAAU,OAAV,CAA
J,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAjR1D,OAkRO,W;O;KA1RX,C;qFAYA,yB;MAAA,+D;MAAA,uC;QAS
W,kBAAS,gB;QAkRA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAlRa,SAkRT,CAAU,OAA
V,CAAJ,C;YAAwB,WAAY,WAAI,OAAJ,C;;QAlR1D,OAmRO,W;O;KA1RX,C;kGAYA,yB;MAAA,+D;MAAA,
uC;QAWW,kBAAS,gB;QAmRA,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAnRe,SAmRX,C
AAU,OAAV,CAAJ,C;YAAwB,WAAI,OAAJ,C;;QAnR1D,OAoRO,W;O;KA1RX,C;kGAYA,yB;MAAA,+D
;MAAA,uC;QAWW,kBAAgB,gB;QAm5HV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UA
11HT,IAzDsC,SAyDlC,EA01HkB,cA11HlB,EA01HkB,sBA11HlB,WA01H2B,IA11H3B,CAAJ,C;YAA2C,sBA01
HZ,IA11HY,C;;QAzzD/C,OA2DO,W;O;KAtEX,C;mGAcA,yB;MAAA,+D;MAAA,uC;QAWW,kBAAgB,gB;QAk5
HV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAt1HT,IA5DuC,SA4DnC,EAs1HkB,cAt1H
lB,EAs1HkB,sBAt1HlB,WAs1H2B,IAt1H3B,CAAJ,C;YAA2C,sBAs1HZ,IAt1HY,C;;QA5zD/C,OA8DO,W;O;KAz
EX,C;mGAcA,yB;MAAA,+D;MAAA,uC;QAWW,kBAAgB,gB;QAi5HV,gB;QADb,YAAY,C;QACC,2B;QAAb,O
AAa,cAAb,C;UAAa,sB;UA/0HT,IA/DuC,SA+DDnC,EAk1HkB,cAl1HlB,EAk1HkB,sBAl1HlB,WAk1H2B,IAl1H3
B,CAAJ,C;YAA2C,sBAk1HZ,IAl1HY,C;;QA/zD/C,OAiEO,W;O;KA5EX,C;mGAcA,yB;MAAA,+D;MAAA,uC;Q
AWW,kBAAgB,gB;QAg5HV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UA90HT,IAlEuC
,SAkEpC,EA80HkB,cA90HlB,EA80HkB,sBA90HlB,WA80H2B,IA90H3B,CAAJ,C;YAA2C,sBA80HZ,IA90HY,C
;;QAlED/C,OAoEO,W;O;KA/EX,C;;QAlE/C,OAoEO,W;K;uGAcA,6C;MAs2HiB,gB;MADb,YAAY,C;QACC,2B;
QAAb,OAAa,cAAb,C;UAAa,sB;UAt1HT,IA5DuC,SA4DnC,EAs1HkB,cAt1HlB,EAs1HkB,sBAt1HlB,WAt1H2B,I
At1H3B,CAAJ,C;YAA2C,sBAt1HZ,IAt1HY,C;;QAzzD/C,OA2DO,W;O;KAtEX,C;uGAcA,yB;MAAA,+D;MAAA,
uC;QAWW,kBAAgB,gB;QAk5HV,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAt1HT,IAA
I,WA01HkB,cA11HlB,EA01HkB,sBA11HlB,WA01H2B,IA11H3B,CAAJ,C;UAA2C,sBA
01HZ,IA11HY,C;;MAE/C,OAAAO,W;K;uGAGX,6C;MAk2HiB,gB;K;uGAGAcA,6C;MuGAGX,6C;MAs2HiB,gB;MA
k2HiB,gB;MADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UAt1HT,IAAI,WAs1HkB,cAt1HlB,EAs1Hk
B,sBAt1HlB,WAs1H2B,IAt1H3B,CAAJ,C;UAA2C,sBAs1HZ,IAt1HY,C;;MAE/C,OAAAO,W;K;;MAE/C,OAAO,W;
K;uGAGX,6C;MA81HiB,gB;MA81HiB,gB;MADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UA90HT,IAAI,WAk1HkB,cAl1HlB,EAk1HkB,sBAl1HlB,WAk1H2B,IAl1H3B,CAAJ,C;UAA2

C,sBAk1HZ,IAl1HY,C;;MAE/C,OAAO,W;K;uGAGX,6C;MA01HiB,gB;MADb,YAAY,C;MACC,2B;MAAb,OA
Aa,cAAb,C;QAAa,sB;QA90HT,IAAI,WA80HkB,cA90HlB,EA80HkB,sBA90HlB,WA80H2B,IA90H3B,CAAJ,C;
UAA2C,sBA80HZ,IA90HY,C;;MAE/C,OAAO,W;K;2FAGX,yB;MAAA,+D;MAAA,uC;QASW,kBAAY,gB;QAg
DH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CAhDY,SAgDX,CAAU,OAAV,CAAL,C;
YAAyB,WAAY,WAAI,OAAJ,C;;QAhD3D,OAiDO,W;O;KA1DX,C;2FAYA,yB;MAAA,+D;MAAA,uC;QASW,k
BAAY,gB;QAiDH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CAjDa,SAiDZ,CAAU,OA
AV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAjD3D,OAkDO,W;O;KA3DX,C;2FAYA,yB;MAAA,+D;MAAA
,uC;QASW,kBAAY,gB;QAkDH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,CAlDa,SAk
DZ,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAlD3D,OAmDO,W;O;KA5DX,C;2FAYA,yB;M
AAA,+D;MAAA,uC;QASW,kBAAY,gB;QAmDH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,I
AAI,CAnDc,SAmDb,CAAU,OAAV,CAAL,C;YAAyB,WAAY,WAAI,OAAJ,C;;QAnD3D,OAoDO,W;O;KA7DX,
C;+FAYA,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV
,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;+FAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OA
AgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC
3D,OAAO,W;K;+FAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,
UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,OAAJ,C;;MAC3D,OAAO,W;K;+FAGX,6C;MASoB,Q;MAAA,2
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,WAAY,WAAI,
OAAJ,C;;MAC3D,OAAO,W;K;yFAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAA
M,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;yFAGX,6C;MASoB,Q;
MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAA
I,OAAJ,C;;MAC1D,OAAO,W;K;yFAGX,6C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAA
M,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAAI,OAAJ,C;;MAC1D,OAAO,W;K;yFAGX,6C;MASoB,Q;
MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,WAAY,WAA
I,OAAJ,C;;MAC1D,OAAO,W;K;IAGX,sC;MAMI,IAAI,OAAQ,UAAZ,C;QAAuB,OhCvjEe,W;;MgCwjEtC,OAA
4D,SA0iDrD,cAAkB,cAAR,iBAAQ,EA1iDN,OAAQ,MA0iDF,EA1iDS,OAAQ,aAAR,GAAuB,CAAvB,IA0iDT,C
AAlB,CA1iDqD,C;K;IAGhE,sC;MAMI,IAAI,OAAQ,UAAZ,C;QAAuB,OhCjkEe,W;;MgCkkEtC,OAA4D,SAgjDr
D,eAAmB,cAAR,iBAAQ,EAhjDP,OAAQ,MAgjDD,EAhjDQ,OAAQ,aAAR,GAAuB,CAAvB,IAgjDR,CAAnB,C
AhjDqD,C;K;IAGhE,sC;MAMI,IAAI,OAAQ,UAAZ,C;QAAuB,OhC3kEe,W;;MgC4kEtC,OAA4D,UAsjDrD,eAA
mB,cAAR,iBAAQ,EAtjDP,OAAQ,MAsjDD,EAtjDQ,OAAQ,aAAR,GAAuB,CAAvB,IAsjDR,CAAnB,CAtjDqD,C
;K;IAGhE,sC;MAMI,IAAI,OAAQ,UAAZ,C;QAAuB,OhCrlEe,W;;MgCslEtC,OAA4D,UA4jDrD,gBAAoB,cAAR,i
BAAQ,EA5jDR,OAAQ,MA4jDA,EA5jDO,OAAQ,aAAR,GAAuB,CAAvB,IA4jDP,CAApB,CA5jDqD,C;K;IAGh
E,sC;MASkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OA
AO,W;MACtB,WAAW,iBAAgB,IAAhB,C;MACG,yB;MAAd,OAAc,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,sB
AAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MASkB,Q;MAHd,WAAmB,wBAAR,OAAQ,EAAwB,EAAxB,
C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iBAAiB,IAAjB,C;MACG,yB;MAAd,OAAd,c
AAd,C;QAAc,uB;QACV,IAAK,WAAI,sBAAI,KAAJ,CAAJ,C;;MAET,OAAO,I;K;IAGX,sC;MASkB,Q;MAHd,W
AAmB,wBAAR,OAAQ,EAAwB,EAAxB,C;MACnB,IAAI,SAAQ,CAAZ,C;QAAe,OAAO,W;MACtB,WAAW,iB
AAiB,IAAjB,C;MACG,yB;MAAd,OAAd,cAAd,C;QAAc,uB;QACV,IAAK,WAAI,sBAAI,KAAJ,CAAJ,C;;MAET
,OAAO,I;K;IAGX,2C;MAMI,OAAO,cAAkB,aAAR,iBAAQ,EAAAW,OAAX,CAAlB,C;K;IAGX,2C;MAMI,OA
AO,eAAmB,aAAR,iBAAQ,EAAAW,OAAX,CAAnB,C;K;IAGX,2C;MAMI,OAAO,eAAmB,aAAR,iBAAQ,EA
AAW,OAAX,CAAnB,C;K;IAGX,2C;MAMI,OAAO,gBAAoB,aAAR,iBAAQ,EAAAW,OAAX,CAApB,C;K;IAGX,
2C;MAMI,OAAO,cAAkB,cAAR,iBAAQ,EAAAW,OAAX,CAAlB,C;K;IAGX,
2C;MAMI,OAAO,eAAmB,cAAR,iBAAQ,EAAAW,OAAX,CAAnB,C;K;IAGX,2C;MAMI,OAAO,eAAmB,aAAR,i
BAAQ,EAAAW,OAAX,CAAnB,C;K;IAGX,2C;MAMI,OAAO,gBAAoB,cAAR,iBAAQ,EAAAW,OAAX,CAApB,C;
K;IAGX,+B;MAgBiB,Q;MxB7xEb,IAAI,EwBuxEI,KAAK,CxBvxET,CAAJ,C;QACI,cwBsxEc,sD;QxxBrxEd,MA
AM,gCAAyB,OAAQ,WAAjC,C;;MwBsxEV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,cAA
AA,gCAAyB,OAAX,KAAK,cAA

T,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,CAAP,C;MACnB,Y
AAY,C;MACZ,WAAW,iBAAgB,CAAhB,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAK,WAAI,IA
AAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,+B;MAgBiB,Q;MxBrzEb,IAAI,EwB+yE
I,KAAK,CxB/yET,CAAJ,C;QACI,cwB8yEc,sD;QxB7yEd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MwB8yEV,IAAI,
MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,cAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAA
T,C;QAAY,OAAO,OAAO,sBAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAiB,CAAjB,C;MACE
,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAE
R,OAAO,I;K;IAGX,+B;MAgBiB,Q;MxB70Eb,IAAI,EwBu0EI,KAAK,CxBv0ET,CAAJ,C;QACI,cwBs0Ec,sD;Qx
Br0Ed,MAAM,gCAAyB,OAAQ,WAAjC,C;;MwBs0EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,
KAAK,cAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,CAAP,
C;MACnB,YAAY,C;MACZ,WAAW,iBAAiB,CAAjB,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAA
K,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;UACI,K;;MAER,OAAO,I;K;IAGX,+B;MAgBiB,Q;MxBr2Eb,IA
AI,EwB+1EI,KAAK,CxB/1ET,CAAJ,C;QACI,cwB81Ec,sD;QxB71Ed,MAAM,gCAAyB,OAAQ,WAAjC,C;;MwB
81EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,IAAI,KAAK,cAAT,C;QAAe,OAAO,mB;MACtB,IAAI,
MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,CAAL,CAAP,C;MACnB,YAAY,C;MACZ,WAAW,iBAAkB,CA
AlB,C;MACE,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAK,WAAI,IAAJ,C;QACL,IAAI,mCAAW,CAAf,C;
UACI,K;;MAER,OAAO,I;K;IAGX,mC;MxB72EI,IAAI,EwBu3EI,KAAK,CxBv3ET,CAAJ,C;QACI,cwBs3Ec,sD;
QxBr3Ed,MAAM,gCAAyB,OAAQ,WAAjC,C;;MwBs3EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WA
AW,c;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sB
AAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAgB,CAAhB,C;MACX,iBAAc,OAAO,CAAP,IAAd,U
AA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,mC;MxBl4EI,IAAI,EwB
44EI,KAAK,CxB54ET,CAAJ,C;QACI,cwB24Ec,sD;QxB14Ed,MAAM,gCAAyB,OAAQ,WAAjC,C;;MwB24EV,I
AAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MA
CtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAA
iB,CAAjB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;
MACT,OAAO,I;K;IAGX,mC;MxBv5EI,IAAI,EwBi6EI,KAAK,CxBj6ET,CAAJ,C;QACI,cwBg6Ec,sD;QxB/5Ed,
MAAM,gCAAyB,OAAQ,WAAjC,C;;MwBg6EV,IAAI,MAAK,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;M
ACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,OA
AO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAiB,CAAjB,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA
7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;MACT,OAAO,I;K;IAGX,mC;MxB56EI,IAAI,EwBs7EI,KAA
K,CxBt7ET,CAAJ,C;QACI,cwBq7Ec,sD;QxBp7Ed,MAAM,gCAAyB,OAAQ,WAAjC,C;;MwBq7EV,IAAI,MAA
K,CAAT,C;QAAY,OAAO,W;MACnB,WAAW,c;MACX,IAAI,KAAK,IAAT,C;QAAe,OAAO,mB;MACtB,IAAI,
MAAK,CAAT,C;QAAY,OAAO,OAAO,sBAAK,OAAO,CAAP,IAAL,CAAP,C;MACnB,WAAW,iBAAkB,CAAl
B,C;MACX,iBAAc,OAAO,CAAP,IAAd,UAA6B,IAA7B,U;QACI,IAAK,WAAI,sBAAK,KAAL,CAAJ,C;MACT,
OAAO,I;K;mGAGX,yB;MAAA,4C;MAAA,gD;MAs2CI,8D;MAt2CJ,uC;QASI,iBA61CgB,cAAR,iBAAQ,CA71C
hB,WAA+B,CAA/B,U;UAACI,IAAI,CAAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ
,CAAR,IAAL,C;;;QAGf,OAAO,iB;O;KAdX,C;mGAiBA,yB;MAAA,4C;MAAA,gD;MA61CI,8D;MA71CJ,uC;QA
SI,iBAo1CgB,cAAR,iBAAQ,CAp1ChB,WAA+B,CAA/B,U;UAACI,IAAI,CAAAC,UAAU,sBAAK,KAAL,CAAV,
CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,iB;O;KAdX,C;mGAiBA,yB;MAAA,4C;M
AAA,gD;MAo1CI,8D;MAp1CJ,uC;QASI,iBAk0CgB,cAAR,iBAAQ,CAl0ChB,WAA+B,CAA/B,U;UAACI,IAAI,
CAAAC,UAAU,sBAAK,KAAL,CAAV,CAAL,C;YACI,OAAO,gBAAK,QAAQ,CAAR,IAAL,C;;;QAGf,OAAO,iB;
O;KAdX,C;2FAiBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QACE,2B;QAAb,OAAa,cAAb,C;QA
Aa,sB;QACT,UACT,IAAI,CAAAC,UAAU,IAAV,CAAJ,C;YAAsB,IAAK,WAAI,IAAJ,C;;;QAET,OAAO,I;O;KAd
X,C;2FAiBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QACE,2B;QAAb,OAAa,cAAb,C;QAAa,sB;
QACT,IAAI,CAAAC,UAAU,IAAV,CAAJ,C;YAAsB,IAAK,WAAI,IAAJ,C;;;QAET,OAAO,I;O;KAdX,C;

QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,
C;;QAET,OAAO,I;O;KAfX,C;2FAkBA,yB;MAAA,+D;MAAA,uC;QAUiB,Q;QADb,WAAW,gB;QACE,2B;QAA
b,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,CAAC,UAAU,IAAV,CAAL,C;YACI,K;UACJ,IAAK,WAAI,IAAJ,C;;QA
ET,OAAO,I;O;KAfX,C;uFAkBA,yB;MAAA,kD;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;KAPZ,C;uFAUA,yB;MA
AA,kD;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;KAPZ,C;uFAUA,yB;MAAA,kD;MAAA,4B;QAOY,QAAR,iBAA
Q,C;O;KAPZ,C;uFAUA,yB;MAAA,kD;MAAA,4B;QAOY,QAAR,iBAAQ,C;O;KAPZ,C;uFAUA,yB;MAAA,kD;
MAAA,gD;QAaY,QAAR,iBAAQ,EAAQ,SAAR,EAAmB,OAAnB,C;O;KAbZ,C;uFAgBA,yB;MAAA,kD;MAAA,
gD;QAaY,QAAR,iBAAQ,EAAQ,SAAR,EAAmB,OAAnB,C;O;KAbZ,C;uFAgBA,yB;MAAA,kD;MAAA,gD;QAa
Y,QAAR,iBAAQ,EAAQ,SAAR,EAAmB,OAAnB,C;O;KAbZ,C;sFAgBA,yB;MAAA,kD;MAAA,gD;QAaY,QAA
R,iBAAQ,EAAQ,SAAR,EAAmB,OAAnB,C;O;KAbZ,C;IAgBA,gC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,W;MA
CtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,gC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,W;
MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,gC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,
W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,gC;MAMI,IAAI,mBAAJ,C;QAAe,OA
AO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MACL,OAAO,I;K;kGAGX,yB;MAAA,8D;MAAA,uC;MAA
A,4B;QAOI,OAAO,mBAAkB,cAAR,iBAAQ,CAAlB,C;O;KAPX,C;kGAUA,yB;MAAA,8D;MAAA,yC;MAAA,4
B;QAOI,OAAO,oBAAmB,cAAR,iBAAQ,CAAnB,C;O;KAPX,C;mGAUA,yB;MAAA,8D;MAAA,yC;MAAA,4B;
QAOI,OAAO,oBAAmB,cAAR,iBAAQ,CAAnB,C;O;KAPX,C;mGAUA,yB;MAAA,8D;MAAA,2C;MAAA,4B;Q
AOI,OAAO,qBAAoB,cAAR,iBAAQ,CAApB,C;O;KAPX,C;IAUA,+B;MAMI,sBAAQ,4BAAR,C;K;IAGJ,+B;MA
MI,sBAAQ,4BAAR,C;K;IAGJ,+B;MAMI,sBAAQ,4BAAR,C;K;IAGJ,uC;
MAQI,aA8+BgB,gBAAR,iBAAQ,CA9+BhB,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAA
R,C;QACf,WAAW,sBAAK,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAAK,CA
AL,EAAU,IAAV,C;;K;IAIR,uC;MAQI,aAs+BgB,gBAAR,iBAAQ,CAt+BhB,OAA2B,CAA3B,M;QACI,QAAQ,M
AAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,sBAAK,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAA
L,CAAV,C;QACA,sBAAK,CAAL,EAAU,IAAV,C;;K;IAIR,uC;MAQI,aAs9BgB,gBAAR,iBAAQ,CAs99BhB,OA
A2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW,sBAAK,CAAL,C;QACX,sBA
AK,CAAL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAAK,CAAL,EAAU,IAAV,C;;K;IAIR,uC;MAQI,aAs9BgB,
gBAAR,iBAAQ,CAt9BhB,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ,IAAR,C;QACf,WAAW
,sBAAK,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAAK,CAAL,EAAU,IAAV,C
;;K;IAIR,sC;MAMI,IAAI,iBAAO,CAAX,C;QACI,iB;QApSI,UAAR,iBAAQ,C;;K;IAySZ,sC;MAMI,IAAI,iBAAO
,CAAX,C;QACI,iB;QAtSI,UAAR,iBAAQ,C;;K;IA2SZ,sC;MAMI,IAAI,iBAAO,CAAX,C;QACI,iB;QAxSI,UAAR
,iBAAQ,C;;K;IA6SZ,sC;MAMI,IAAI,iBAAO,CAAX,C;QACI,iB;QA1SI,UAAR,iBAAQ,C;;K;IA+SZ,6B;MAMoB
,kBA+nBT,cAAU,iBvB58EO,QuB48EjB,C;MA/nBiB,mB;MAAxB,OAAiC,SrBv3F1B,WqBu3F0B,C;K;IAGrC,8B
;MAMoB,kBAkoBT,eAAmB,UAAR,iBAAQ,CAAnB,C;MAloBiB,mB;MAAxB,OAAiC,SrBh4F1B,WqBg4F0B,C;
K;IAGrC,8B;MAMoB,kBAqoBT,eAAW,iBvBx/EM,QuBw/EjB,C;MAroBiB,mB;MAAxB,OAAiC,SrBz4F1B,Wq
By4F0B,C;K;IAGrC,8B;MAMoB,kBAwoBT,gBAAY,iBvB1/EK,QuB0/EjB,C;MAxoBiB,mB;MAAxB,OAAiC,SrB
Bl5F1B,WqBk5F0B,C;K;IAGrC,kC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBA0lBd,cA1lBA,SA0lBU,
QvB58EO,QuB48EjB,C;MA1lBsB,mB;MAA7B,OrBB55FO,WqBk55F0B,C;K;IqB+5FX,kC;MAMI,IAAI,mBAAJ,C;
QAAe,OA
AO,S;MACD,kBA4lBd,eAAmB,UA5lBnB,SA4lBW,QAAQ,CAAnB,C;MA5lBsB,mB;MAA7B,OrBBt6FO,WqBk6F0
B,C;K;IqB+6FX,kC;MAMI,IAAI,mBAAJ,C;QAAe,OA
AO,S;MACD,kBA8lBd,eA9lBA,SA8lBW,QvBx/EM,QuBw/EjB,C;MA9lBsB,mB;MAA7B,OrBBh7FO,WqBm7F0B
,C;K;IqB+7FX,kC;MAMI,IAAI,mBAAJ,C;QAAe,OAAO,S;MACD,kBAgmBd,gBAhmBA,SAgmBY,QvB1/EK,Qu
B0/EjB,C;MAhmBsB,mB;MAA7B,OrBB17FO,WqBm7F0B,C;K;IqB+7FX,4C;MAMI,IAAI,mBAAJ,C;QAAe,OAAO
,S;MACD,kBAkjBd,cAljBA,SAkjBU,QvB58EO,QuB48EjB,C;MAljBsB,8B;MAAxB,OAAxB,OAAiC,YrB7+E1B,W
qB6+E0B,C;K;IAGrC,wC;MAQoB,kBA0gBT,eAAmB,UAAR,iBAAQ,CAAnB,C;MA1gB

B,mB;MAAxB,OAAiC,YrBx/F1B,WqBw/F0B,C;K;IAGrC,wC;MAQoB,kBA2gBT,eAAW,iBvBx/EM,QuBw/EjB,
C;MA3gBiB,mB;MAAxB,OAAiC,YrBngG1B,WqBmgG0B,C;K;IAGrC,wC;MAQoB,kBA4gBT,gBAAY,iBvB1/E
K,QuB0/EjB,C;MA5gBiB,mB;MAAxB,OAAiC,YrB9gG1B,WqB8gG0B,C;K;4FAGrC,qB;MAQI,OAAO,iB;K;0F
AGX,qB;MAQI,OAAO,iB;K;4FA+BX,qB;MAQI,OAAO,iB;K;8FAGX,qB;MAQI,OAAO,iB;K;8FAGX,yB;MAA
A,yC;MAAA,4B;QAQI,OAAO,oBAAW,SAAX,C;O;KARX,C;4FAWA,yB;MAAA,uC;MAAA,4B;QAQI,OAAO,
mBAAU,SAAV,C;O;KARX,C;8FAWA,yB;MAAA,yC;MAAA,4B;QAQI,OAAO,oBAAW,SAAX,C;O;KARX,C;g
GAWA,yB;MAAA,2C;MAAA,4B;QAQI,OAAO,qBAAY,SAAZ,C;O;KARX,C;IAWA,2C;MASI,OAAY,gBAAL,
SAAK,EAAc,KAAd,C;K;IAGhB,2C;MASI,OAAY,gBAAL,SAAK,EAAc,KAAd,C;K;IAGhB,2C;MASI,OAAY,g
BAAL,SAAK,EAAc,KAAd,C;K;IAGhB,2C;MASI,OAAY,gBAAL,SAAK,EAAc,KAAd,C;K;IAGhB,2C;MAOI,O
AAqB,cAAd,4CAAc,EAAc,oCAAd,C;K;IAGzB,2C;MAOI,OAAqB,cAAd,4CAAc,EAAc,oCAAd,C;K;IAGzB,2C;
MAOI,OAAqB,cAAd,4CAAc,EAAc,oCAAd,C;K;IAGzB,2C;MAOI,OAAqB,cAAd,4CAAc,EAAc,oCAAd,C;K;IA
GzB,sC;MAQI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAQI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAQI,OAA
Y,kBAAL,SAAK,C;K;IAGhB,sC;MAQI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAMI,OAAqB,gBAAd,4CAAc,
C;K;IAGzB,sC;MAMI,OAAqB,gBAAd,4CAAc,C;K;IAGzB,sC;MAMI,OAAqB,gBAAd,4CAAc,C;K;IAGzB,sC;
MAMI,OAAqB,gBAAd,4CAAc,C;K;IAGzB,sC;MAUI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAUI,OAAY,kBA
AL,SAAK,C;K;IAGhB,sC;MAUI,OAAY,kBAAL,SAAK,C;K;IAGhB,sC;MAUI,OAAY,kBAAL,SAAK,C;K;IAGh
B,sC;MAQW,Q;MAAP,OAAO,sDAAmB,IAAnB,EAAyB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;IAGjD,sC;MA
QW,Q;MAAP,OAAO,sDAAmB,IAAnB,EAAyB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;IAGjD,sC;MAQW,Q;M
AAP,OAAO,sDAAmB,IAAnB,EAAyB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;IAGjD,sC;MAQW,Q;MAAP,OA
AO,sDAAmB,IAAnB,EAAyB,GAAzB,EAA8B,GAA9B,2BAAsC,M;K;sFAGjD,yB;MvBxhFA,8C;MuBwhFA,kF;
QAmB6D,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,c;QvBvhF1H,UuBwhF
A,iBvBxhFA,EuBwhFiB,WAAY,QvBxhF7B,EuBwhFsC,iBvBxhFtC,EuBwhFyD,UvBxhFzD,EuBwhFqE,QvBxhF
rE,C;QuByhFA,OAAO,W;O;KArBX,C;wFAwBA,yB;MvBxhFA,8C;MuBwhFA,kF;QAmB+D,iC;UAAA,oBAAy
B,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,c;QvBvhF5H,UuBwhFA,iBvBxhF5H,UuBwhFA,iBvBxhFA,EuBwhFiB,W
AAY,QvBxhF7B,EuBwhFsC,iBvBxhFtC,EuBwhFyD,UvBxhFzD,EuBwhFqE,QvBxhFrE,C;QuByhFA,OAAO,W;
O;KArBX,C;wFAwBA,yB;MvBxnFA,8C;MuBwnFA,kF;QAmB+D,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAA
kB,C;QAAG,wB;UAAA,WAAgB,c;QvBvnF5H,UuBwnFA,iBvBxnFA,EuBwnFiB,WAAY,QvBxnF7B,EuBwnFsC
,iBvBxnFtC,EuBwnFyD,UvBxnFzD,EuBwnFqE,QvBxnFrE,C;QuBynFA,OAAO,W;O;KArBX,C;kFAwBA,yB;M
vBxnFA,8C;MuBwnFA,kF;QAmBiE,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WA
AgB,c;QvBvnF9H,UuBwnFA,iBvBxnFA,EuBwnFiB,WAAY,QvBxnF7B,EuBwnFsC,iBvBxnFtC,EuBwnFyD,UvB
xnFzD,EuBwnFqE,QvBxnFrE,C;QuBynFA,OAAO,W;O;KArBX,C;kFAwBA,yB;MAAA,uC;MAAA,4B;QASI,OA
AO,mBAAU,iBvB58EO,QuB48EjB,C;O;KATX,C;oFAYA,yB;MAAA,gD;MAAA,yC;MAAA,4B;QASI,OAAO,o
BAAmB,OAAR,iBAAQ,CAAnB,C;O;KATX,C;oFAYA,yB;MAAA,yC;MAAA,4B;QASI,OAAO,oBAAW,iBvBx/
EM,QuBw/EjB,C;O;KATX,C;oFAYA,yB;MAAA,2C;MAAA,4B;QASI,OAAO,qBAAY,iBvB1/EK,QuB0/EjB,C;O
;KATX,C;oFAYA,yB;MAAA,gD;MAAA,uC;MAAA,qC;QAWI,OAAO,mBAAkB,OAAR,iBAAQ,EAAO,OAAP,
CAAlB,C;O;KAXX,C;oFAcA,yB;MAAA,gD;MAAA,yC;MAAA,qC;QAWI,OAAO,oBAAmB,OAAR,iBAAQ,EA
AO,OAAP,CAAnB,C;O;KAXX,C;oFAcA,yB;MAAA,+C;MAAA,yC;MAAA,qC;QAWI,OAAO,oBAAmB,OAAR,
iBAAQ,EAAO,OAAP,CAApB,C;O;KAXX,C;4FAcA,yB;MAAA,gD;MAAA,2C;MAAA,qC;QAWI,OAAO,qBAA
oB,OAAR,iBAAQ,EAAO,OAAP,CAApB,C;O;KAXX,C;4FAcA,yB;MAAA,0D;MAAA,uC;MAAA,gD;QAaI,OA
AO,mBAAkB,YAAR,iBAAQ,EAAY,SAAZ,EAAuB,OAAvB,CAAlB,C;O;KAbX,C;8FAgBA,yB;MAAA,0D;MA
AA,yC;MAAA,gD;QAaI,OAAO,oBAAmB,YAAR,iBAAQ,EAAY,SAAZ,EAAuB,OAAvB,CAAnB,C;O;KAbX,C;
8FAgBA,yB;MAAA,0D;MAAA,yC;MAAA,gD;QAaI,OAAO,oBAAmB,YAAR,iBAAQ,EAAY,SAAZ,EAAuB,O
AAvB,CAAnB,C;O;KAbX,C;6FAgBA,yB;MAAA,0D;MAAA,2C;MAAA,gD;QAaI,OAAO,qBAAoB,YAAR,iBA
AQ,EAAY,SAAZ,EAAuB,OAAvB,CAApB,C;O;KAbX,C;IAgBA,sD;MAWyC,yB;QAAA,YAAiB,C;MAAG,uB;
QAAA,UAAe,c;MAChE,OAAR,iBAAQ,EAAK,OnCv8GoB,KmCu8GzB,EAAsB,SAAtB,EAAiC,OAAjC,C;C;K;IA
GZ,wD;MAW2C,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAChE,OAAR,iBAAQ,EAAK,OnB38GsB,K
mB28G3B,EAAuB,SAAvB,EAAkC,OAAlC,C;C;K;IAGZ,wD;MAW2C,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,U
AAe,c;MAChE,OAAR,iBAAQ,EAAK,OpC7gHsB,KoC6gH3B,EAAuB,SAAvB,EAAkC,OAAlC,C;C;K;IAGZ,wD;M

AW6C,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACpE,OAAR,iBAAQ,EAAK,OlCjhHwB,KkCihH7B,E
AAwB,SAAxB,EAAmC,OAAnC,C;K;8FASR,yB;MAAA,0D;MAAA,4B;QAAQ,OAAQ,YAAR,iBAAQ,C;O;KA
AhB,C;8FAQA,yB;MAAA,0D;MAAA,4B;QAAQ,OAAQ,YAAR,iBAAQ,C;O;KAAhB,C;+FAQA,yB;MAAA,0D;
MAAA,4B;QAAQ,OAAQ,YAAR,iBAAQ,C;O;KAAhB,C;+FAQA,yB;MAAA,0D;MAAA,4B;QAAQ,OAAQ,YA
AR,iBAAQ,C;O;KAAhB,C;kGAQA,yB;MAAA,8D;MAAA,4B;QAAQ,OAAQ,cAAR,iBAAQ,C;O;KAAhB,C;kG
AQA,yB;MAAA,8D;MAAA,4B;QAAQ,OAAQ,cAAR,iBAAQ,C;O;KAAhB,C;mGAQA,yB;MAAA,8D;MAAA,4
B;QAAQ,OAAQ,cAAR,iBAAQ,C;O;KAAhB,C;mGAQA,yB;MAAA,8D;MAAA,4B;QAAQ,OAAQ,cAAR,iBAA
Q,C;O;KAAhB,C;iFAEJ,yB;MAAA,uC;MvBvoEA,iD;MuBuoEA,qC;QAOqB,4B;QAAA,gBAAU,OnC9jHM,K;Q
mC8jHjC,OAAO,mBvBzoEA,2BAxIK,gBAAW,SAAX,EAwIL,CuByoEA,C;O;KAPX,C;iFAUA,yB;MAAA,yC;M
vBzoEA,iD;MuByoEA,qC;QAOI,OAAO,oBvB3oEA,qBuB2oEW,iBvB3oEX,EAxIK,mBuBmxEgB,OnB7jHO,KJ0
yCvB,CAwIL,CuB2oEA,C;O;KAPX,C;iFAUA,yB;MAAA,yC;MvB3qEA,iD;MuB2qEA,qC;QAOsB,4B;QAAA,g
BAAU,OpC1nHO,K;QoC0nHnC,OAAO,oBvB7qEA,2BAxIK,eAAY,SAAZ,EAwIL,CuB6qEA,C;O;KAPX,C;iFA
UA,yB;MAAA,2C;MvB7qEA,iD;MuB6qEA,qC;QAOuB,4B;QAAA,gBAAU,OlCznHQ,K;QkCynHrC,OAAO,qBv
B/qEA,2BAxIK,gBAAa,SAAb,EAwIL,CuB+qEA,C;O;KAPX,C;IAUA,sC;MAQoB,UAAiB,M;MAFjC,YAAY,c;
MACZ,aAAqB,UAAR,iBAAQ,EAAO,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;MAAhB,OAAgB,cAAhB,C;Q
AAgB,yB;QAAU,OAAO,cAAP,EAAO,sBAAP,YAAkB,OnCvmHX,K;;MmCwmHjC,OAAO,cAAU,MAAV,C;K;I
AGX,sC;MAQoB,UAAiB,M;MAFjC,YAAY,c;MACZ,aAAqB,UAAR,iBAAQ,EAAO,iBAAO,QAAS,KAAhB,IA
AP,C;MACL,0B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAU,OAAO,cAAP,EAAO,sBAAP,YAAkB,OnBxmH
T,K;;MmBymHnC,OAAO,eAAW,MAAX,C;K;IAGX,sC;MAQoB,UAAiB,M;MAFjC,YAAY,c;MACZ,aAAqB,U
AAR,iBAAQ,EAAO,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAU,
OAAO,cAAP,EAAO,sBAAP,YAAkB,OpCvqHT,K;;MoCwqHnC,OAAO,eAAW,MAAX,C;K;IAGX,sC;MAQoB,
UAAiB,M;MAFjC,YAAY,c;MACZ,aAAqB,UAAR,iBAAQ,EAAO,iBAAO,QAAS,KAAhB,IAAP,C;MACL,0B;M
AAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAU,OAAO,cAAP,EAAO,sBAAP,YAAkB,OlCxqHP,K;;MkCyqHrC,OA
AO,gBAAY,MAAZ,C;K;iFAGX,yB;MAAA,uC;MvB/tEA,iD;MuB+tEA,sC;QAOI,OAAO,mBvBjuEA,qBuBiuEU,
iBvBjuEV,EuBiuEoB,QAAS,QvBjuE7B,CuBiuEA,C;O;KAPX,C;iFAUA,yB;MAAA,yC;MvBjuEA,iD;MuBiuEA,s
C;QAOI,OAAO,oBvBnuEA,qBuBmuEW,iBvBnuEX,EuBmuEqB,QAAS,QvBnuE9B,CuBmuEA,C;O;KAPX,C;iF
AUA,yB;MAAA,yC;MvBnuEA,iD;MuBmuEA,sC;QAOI,OAAO,oBvBrwEA,qBuBqwEW,iBvBrwEX,EuBqwEqB,
QAAS,QvBrwE9B,CuBqwEA,C;O;KAPX,C;iFAUA,yB;MAAA,2C;MvBrwEA,iD;MuBqwEA,sC;QAOI,OAAO
,qBvBvwEA,qBuBuwEY,iBvBvwEZ,EuBuwEsB,QAAS,QvBvwE/B,CuBuwEA,C;O;KAPX,C;IAUA,2B;MAQI,I
AAI,iBAAO,CAAX,C;QAAc,YAAU,SAAV,EAAgB,CAAhB,EAAmB,cAAnB,C;K;IAGlB,2B;MAQI,IAAI,iBAA
O,CAAX,C;QAAc,YAAU,SAAV,EAAgB,CAAhB,EAAmB,cAAnB,C;K;IAGlB,2B;MAQI,IAAI,iBAAO,CAAX,C
;QAAc,YAAU,SAAV,EAAgB,CAAhB,EAAmB,cAAnB,C;K;IAGlB,2B;MAQI,IAAI,iBAAO,CAAX,C;QAAc,YA
AU,SAAV,EAAgB,CAAhB,EAAmB,cAAnB,C;K;IAGlB,+C;MAa0B,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,U
AAe,c;MACzD,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,cAAtC,C;MACb,YAAU,SAAV,EAAgB,SAAh
B,EAA2B,OAA3B,C;K;IAGJ,+C;MAa2B,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC1D,oCAAa,2BA
AkB,SAAlB,EAA6B,OAA7B,EAAsC,cAAtC,C;MACb,YAAU,SAAV,EAAgB,SAAhB,EAA2B,OAA3B,C;K;IAG
J,+C;MAa2B,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC1D,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7
B,EAAsC,cAAtC,C;MACb,YAAU,SAAV,EAAgB,SAAhB,EAA2B,OAA3B,C;K;IAGJ,+C;MAa4B,yB;QAAA,YA
AiB,C;MAAG,uB;QAAA,UAAe,c;MAC3D,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,cAAtC,C;MACb,
YAAU,SAAV,EAAgB,SAAhB,EAA2B,OAA3B,C;K;IAGJ,0D;MAaI,kBAAK,SAAL,EAAgB,OAAhB,C;MAh8C
Q,WAAR,iBAAQ,EAi8CA,SAj8CA,EAi8CW,OAj8CX,C;K;IAo8CZ,0D;MAaI,kBAAK,SAAL,EAAgB,OAAhB,C
;MAj8CQ,WAAR,iBAAQ,EAk8CA,SAl8CA,EAk8CW,OAl8CX,C;K;IAq8CZ,0D;MAaI,kBAAK,SAAL,EAAgB,
OAAhB,C;MAl8CQ,UAAR,iBAAQ,EAm8CA,SAn8CA,EAm8CW,OAn8CX,C;K;IAs8CZ,0D;MAaI,kBAAK,SA
AL,EAAgB,OAAhB,C;MAn8CQ,WAAR,iBAAQ,EAo8CA,SAp8CA,EAo8CW,OAp8CX,C;K;8FAu8CZ,qB;MAQ
I,OAAO,iBvB3jGiB,Q;K;4FuB8jG5B,qB;MAQI,OAAO,iBvBBljGiB,Q;K;8FuBBqjG5B,yB;MAAA,gD;MAAA,4B
;Q
AQI,OAAe,OAAR,iBAAQ,C;O;KARnB,C;gGAWA,qB;MAQI,OAAO,iBvBBllGiB,Q;K;IuBB2lGL,gD;MAAA,wB;Q
AAW,qCAAK,KAAL,C;O;K;IANlC,iC;MAMI,OAAO,iBAAM,cAAN,EAAY,8BAAZ,C;K;K;IASY,kD;MAAA,wB;
QAAW,qCAAK,KAAL,C;O;K;IANlC,mC;MAMI,OAAO,iBAAM,cAAN,EAAY,gCAAZ,C;K;K;IASY,kD;MAAA,w

B;QAAW,qCAAK,KAAL,C;O;K;IANlC,mC;MAMI,OAAO,iBAAM,cAAN,EAAY,gCAAZ,C;K;IASY,kD;MAAA
,wB;QAAW,qCAAK,KAAL,C;O;K;IANlC,mC;MAMI,OAAO,iBAAM,cAAN,EAAY,gCAAZ,C;K;IASiB,gD;MA
AA,wB;QAAW,yBAAK,KAAL,C;O;K;IANvC,iC;MAMI,OJnqIO,eAAW,+BImqIA,gBJnqIA,GAAgB,kBImqIV,8
BJnqIU,CAAhB,CAAX,C;K;gGIsqIX,yB;MAAA,yC;MAAA,4B;QAQI,OAAO,oBAAW,SvBppGM,QuBopGjB,C;
O;KARX,C;IAiB2B,8C;MAAA,wB;QAAW,wBAAK,KAAL,C;O;K;IANtC,gC;MAMI,OHvrIO,cAAU,gCGurIA,g
BHvrIA,GAAe,iBGurIT,6BHvrIS,CAAf,CAAV,C;K;8FG0rIX,yB;MAAA,uC;MAAA,4B;QAQI,OAAO,mBAAU,
SvBppGO,QuBopGjB,C;O;KARX,C;IAiB4B,gD;MAAA,wB;QAAW,yBAAK,KAAL,C;O;K;IANvC,iC;MAMI,OF
3sIO,eAAW,kBE2sIA,gBF3sIA,EAAgB,kBE2sIV,8BF3sIU,CAAhB,CAAX,C;K;gGE8sIX,yB;MAAA,gD;MAAA,
yC;MAAA,4B;QAQI,OAAO,oBAAgB,OAAL,SAAK,CAAhB,C;O;KARX,C;IAiB6B,kD;MAAA,wB;QAAW,0BA
AK,KAAL,C;O;K;IANxC,kC;MAMI,OD/tIO,gBAAY,gCC+tIA,gBD/tIA,GAAiB,mBC+tIX,+BD/tIW,CAAjB,CA
AZ,C;K;kGCkuIX,yB;MAAA,2C;MAAA,4B;QAQI,OAAO,qBAAY,SvBtsGK,QuBssGjB,C;O;KARX,C;mGAWA
,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAcI,aAAa,mBAAyC,cAAlB,YAAY,cAAZ,CAAkB,EAAc,EA
Ad,CAAzC,C;QAsEG,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UArEO,MAsEP,aAAI,OAAJ,EAtEe,a
AsEF,CAAc,OAAd,CAAb,C;;QAtEhB,OAAuB,M;O;KAf3B,C;mGAkBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;
MAAA,2C;QAcI,aAAa,mBAA0C,cAAlB,YAAY,cAAZ,CAAkB,EAAc,EAAd,CAA1C,C;QAsEG,Q;QAAA,2B;Q
AAhB,OAAgB,cAAhB,C;UAAgB,yB;UArEO,MAsEP,aAAI,OAAJ,EAtEe,aAsEF,CAAc,OAAd,CAAb,C;;QAtEh
B,OAAuB,M;O;KAf3B,C;kGAkBA,yB;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAcI,aAAa,mBAA0C,cAA
lB,YAAY,cAAZ,CAAkB,EAAc,EAAd,CAA1C,C;QAsEG,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;
UArEO,MAsEP,aAAI,OAAJ,EAtEe,aAsEF,CAAc,OAAd,CAAb,C;;QAtEhB,OAAuB,M;O;KAf3B,C;mGAkBA,y
B;MAAA,0D;MAAA,yD;MAAA,uE;MAAA,2C;QAcI,aAAa,mBAA2C,cAAlB,YAAY,cAAZ,CAAkB,EAAc,EAA
d,CAA3C,C;QAsEG,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UArEO,MAsEP,aAAI,OAAJ,EAtEe,a
AsEF,CAAc,OAAd,CAAb,C;;QAtEhB,OAAuB,M;O;KAf3B,C;uGAkBA,iD;MAYoB,Q;MAAA,2B;MAAhB,OAA
gB,cAAhB,C;QAAgB,yB;QACZ,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;uGAG
X,iD;MAYoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,WAAY,aAAI,OAAJ,EAAa,cAAc,OA
Ad,CAAb,C;;MAEhB,OAAO,W;K;uGAGX,iD;MAYoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Q
ACZ,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAAO,W;K;uGAGX,iD;MAYoB,Q;MAAA,2B;
MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,WAAY,aAAI,OAAJ,EAAa,cAAc,OAAd,CAAb,C;;MAEhB,OAA
O,W;K;uFAGX,yB;MAAA,+D;MAoLA,gD;MApLA,uC;QASW,kBAAU,gB;QAkLD,Q;QAAA,2B;QAAhB,OAA
gB,cAAhB,C;UAAgB,yB;UAACZ,WAnL6B,SAmLlB,CAAU,OAAV,C;UAACC,OAAZ,WAAY,EAAO,IAAP,C;;QA
pLhB,OAAsLO,W;O;KA/LX,C;uFAYA,+D;MAsLA,gD;MAtLA,uC;QASW,kBAAU,gB;QAoLD,Q;QAAA,2B;QA
AA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAACZ,WArL6B,SAqLlB,CAAU,OAAV,C;UAACC,OAAZ,WAAY,
EAAO,IAAP,C;;QAtLhB,OAAwLO,W;O;KAjMX,C;uFAYA,+D;MAwLA,gD;MAxLA,uC;QASW,kBAAU,gB;QA
sLD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAACZ,WAvL6B,SAuLlB,CAAU,OAAV,C;UAACC,OA
AZ,WAAY,EAAO,IAAP,C;;QAxLhB,OA0LLO,W;O;KAnMX,C;qGAYA,yB;MAAA,+D;MA4DA,gD;MA5DA,uC;
QAYW,kBAAiB,gB;QA2DR,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAACZ,WA5
DoC,SA4DzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QA7DhB,OA
+DO,W;O;KA3EX,C;qGAeA,yB;MAAA,+D;MA/DA,gD;MA+DA,uC;QAYW,kBAAU,gB;QA8DR,gB;QADhB,YA
AY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAACZ,WA/DoC,SA+DzB,EAAU,cAAV,EAAU,sBAAV,WA
Amb,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAhEhB,OAkEO,W;O;KA9EX,C;qGAeA,yB;MAAA,+D;MAl
EA,gD;MAkEA,uC;QAYW,kBAAU,gB;QAiER,gB;QADhB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,
yB;UAACZ,WAlEoC,SAkEzB,EAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C
;;QAnEhB,OAqEO,W;O;KAjFX,C;yGAeA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACI,
2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAACZ,WAAW,WAAU,cAAV,EAAU,sB

BAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;yGAkBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;yGAkBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;yGAkBA,yB;MAAA,gD;MAAA,oD;QAWoB,UACS,M;QAFzB,YAAY,C;QACI,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAAW,WAAU,cAAV,EAAU,sBAAV,WAAmB,OAAnB,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAfX,C;2FAkBA,yB;MAAA,gD;MAAA,oD;QAOoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAXX,C;2FAcA,yB;MAAA,gD;MAAA,oD;QAOoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAXX,C;2FAcA,yB;MAAA,gD;MAAA,oD;QAOoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,WAAW,UAAU,OAAV,C;UACC,OAAZ,WAAY,EAAO,IAAP,C;;QAEhB,OAAO,W;O;KAXX,C;uFAcA,yB;MAAA,wE;MA4HA,+D;MA5HA,yC;QAYW,kBAAU,oB;QA4HD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UA7HoD,WA6H1C,CAAY,OAAZ,C;U/B59IP,U;UADP,Y+B89Ie,W/B99IH,W+B89IwB,G/B99IxB,C;UACL,IAAI,aAAJ,C;YACH,a+B49IuC,gB;YAA5B,W/B39IX,a+B29IgC,G/B39IhC,C;UAAS,MAAT,C;Y+BYACA,e;;YAAA,c;;U/B+B9IA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA/HT,OAiIO,W;O;KA7IX,C;uFAeA,yB;MAAA,wE;MA4HA,+D;MA5HA,yC;QAYW,kBAAU,oB;QAiID,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAlIoD,WAkI1C,CAAY,OAAZ,C;U/BBh/IP,U;UADP,Y+BEIe,W/BFIH,W+BEIwB,G/BFIxB,C;UACL,IAAI,aAAJ,C;YACH,a+BGIuC,gB;YAA5B,W/BHIX,a+BGIgC,G/BHIhC,C;UAAS,MAAT,C;Y+BYACA,e;;YAAA,c;;U/BB4IA,iB;UACA,IAAK,WAAI,OAAJ,C;;QApIT,OAsIO,W;O;KAlJX,C;sFAeA,yB;MAAA,wE;MA4HA,+D;MA5HA,yC;QAYW,kBAAU,oB;QAsID,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAvIoD,WAuI1C,CAAY,OAAZ,C;U/BBpgJP,U;UADP,Y+BEIe,W/BFIH,W+BEIwB,G/BFIxB,C;UACL,IAAI,aAAJ,C;YACH,a+BGIuC,gB;YAA5B,W/BHIX,a+BGIgC,G/BHIhC,C;UAAS,MAAT,C;Y+BYACA,e;;YAAA,c;;U/BB6IA,iB;UACA,IAAK,WAAI,OAAJ,C;;QA9IT,O9AgIO,W;O;KA5JX,C;uFAeA,yB;MAAA,wE;MAgJA,+D;MAhJA,yD;QAaW,kBAAU,oB;QAgJD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAjJoD,WAiJ1C,CAAY,OAAZ,C;U/B7iJP,U;UADP,Y+B+iJe,W/B/iJH,W+B+iJwB,G/B/iJxB,C;UACL,IAAI,aAAJ,C;YACH,a+B6iJuC,gB;YAA5B,W/B5iJX,a+B4iJgC,G/B5iJhC,C;UAAS,MAAT,C;Y+BYACA,e;;YAAA,c;;U/BkiJA,iB;UACA,IAAK,WAnJuB,CAmJpB,OAAJ,C;;QAnJT,OAqJO,W;O;KAlKX,C;uFAgBA,yB;MAAA,wE;MAgJA,+D;MAhJA,yD;QAaW,kBAAU,oB;QAqJD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAtJoD,WAsJ1C,CAAY,OAAZ,C;U/BlkJP,U;UADP,Y+BokJe,W/BpkJH,W+BokJwB,G/BpkJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BkkJuC,gB;YAA5B,W/BjkJX,a+BikJgC,G/BjkJhC,C;UAAS,MAAT,C;Y+BYACA,e;;YAAA,c;;U/BukJA,iB;UACA,IAAK,WAxJuB,CAwJpB,OAAJ,C;;QAxJT,OA0JO,W;O;KAvKX,C;uFAgBA,yB;MAAA,wE;MAgJA,+D;MAhJA,yD;QAaW,kBAAU,oB;QA0JD,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UA3JoD,WA2J1C,CAAY,OAAZ,C;U/BvlJP,U;UADP,Y+BylJe,W/BzlJH,W+BylJwB,G/BzlJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BulJuC,gB;YAA5B,W/BtlJX,a+BslJgC,G/BtlJhC,C;UAAS,MAAT,C;Y+BYACA,e;;YAAA,c;;U/B4lJA,iB;UACA,IAAK,WA7JuB,CA6JpB,OAAJ,C;;QA7JT,OA+JO,W;O;KA5KX,C;yFAgBA,yB;MAAA,+D;MAAA,sD;QAaW,kBAAY,oB;QAgBH,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/B59IP,U;UADP,Y+B89Ie,W/B99IH,W+B89I

IwB,G/B99IxB,C;UACL,IAAI,aAAJ,C;YACH,a+B49IuC,gB;YAA5B,W/B39IX,a+B29IgC,G/B39IhC,EAAS,MA
AT,C;YACA,e;;YAEA,c;;U+Bw9IA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAjBX,C;2FAoBA,y
B;MAAA,+D;MAAA,sD;QAYoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,O
AAZ,C;U/Bh/IP,U;UADP,Y+Bk/Ie,W/Bl/IH,W+Bk/IwB,G/Bl/IxB,C;UACL,IAAI,aAAJ,C;YACH,a+Bg/IuC,gB;Y
AA5B,W/B/+IX,a+B++IgC,G/B/+IhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+B4+IA,iB;UACA,IAAK,WAAI,OA
AJ,C;;QAET,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAAA,+D;MAAA,sD;QAYoB,Q;QAAA,2B;QAAhB,OAAgB,
cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BpgJP,U;UADP,Y+BsgJe,W/BtgJH,W+BsgJwB,G/BtgJx
B,C;UACL,IAAI,aAAJ,C;YACH,a+BogJuC,gB;YAA5B,W/BngJX,a+BmgJgC,G/BngJhC,EAAS,MAAT,C;YACA
,e;;YAEA,c;;U+BggJA,iB;UACA,IAAK,WAAI,OAAJ,C;;QAET,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAAA,+D;
MAAA,sD;QAYoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BxhJ
P,U;UADP,Y+B0hJe,W/B1hJH,W+B0hJwB,G/B1hJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BwhJuC,gB;YAA5B,W/
BvhJX,a+BuhJgC,G/BvhJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BohJA,iB;UACA,IAAK,WAAI,OAAJ,C;;Q
AET,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAAA,+D;MAAA,sE;QAaoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C
;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/B7iJP,U;UADP,Y+B+iJe,W/B/iJH,W+B+iJwB,G/B/iJxB,C;UACL
,IAAI,aAAJ,C;YACH,a+B6iJuC,gB;YAA5B,W/B5iJX,a+B4iJgC,G/B5iJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;
U+ByiJA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAlBX,C;2FAqBA,yB;MAAA,+D;
MAAA,sE;QAaoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BlkJP,
U;UADP,Y+BokJe,W/BpkJH,W+BokJwB,G/BpkJxB,C;UACL,IAAI,aAAJ,C;YACH,a+BkkJuC,gB;YAA5B,W/Bj
kJX,a+BikJgC,G/BjkJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+B8jJA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CA
AJ,C;;QAET,OAAO,W;O;KAlBX,C;2FAqBA,yB;MAAA,+D;MAAA,sE;QAaoB,Q;QAAA,2B;QAAhB,OAAgB,c
AAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/BvljP,U;UADP,Y+ByljJe,W/BzljJH,W+ByljJwB,G/BzljJxB,
C;UACL,IAAI,aAAJ,C;YACH,a+BulJuC,gB;YAA5B,W/BtljJX,a+BslJgC,G/BtlJhC,EAAS,MAAT,C;YACA,e;;YA
EA,c;;U+BmlJA,iB;UACA,IAAK,WAAI,eAAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAlBX,C;2FAqBA,yB;MAA
A,+D;MAAA,sE;QAaoB,Q;QAAA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,UAAU,YAAY,OAAZ,C;U/
B5mJP,U;UADP,Y+B8mJe,W/B9mJH,W+B8mJwB,G/B9mJxB,C;UACL,IAAI,aAAJ,C;YACH,a+B4mJuC,gB;YA
A5B,W/B3mJX,a+B2mJgC,G/B3mJhC,EAAS,MAAT,C;YACA,e;;YAEA,c;;U+BwmJA,iB;UACA,IAAK,WAAI,e
AAe,OAAf,CAAJ,C;;QAET,OAAO,W;O;KAlBX,C;+EAqBA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,c
AAb,C;QAsKA,Q;QAAA,2B;QAAb,OAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvKiB,SAuKb,CAAU,IAAV,CA
AJ,C;;QAvKhB,OAwKO,W;O;KAlLX,C;+EAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAs
KA,Q;QAAA,2B;QAAb,OAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;Q
Av
KhB,OAwKO,W;O;KAlLX,C;8EAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsKA,Q;QAA
A,2B;QAAb,OAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;QAvKhB,OAwK
O,W;O;KAlLX,C;+EAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAM,eAAa,cAAb,C;QAsKA,Q;QAAA,2B;QAAb
,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAvKiB,SAuKb,CAAU,IAAV,CAAJ,C;;QAvKhB,OAwKO,W;O;KAl
LX,C;4FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAA,eAAa,cAAb,C;QAqDb,gB;QADb,YAAY,C;QACC,2B;Q
AAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAtDwB,SAsDpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB
,CAAJ,C;;QAtDhB,OAuDO,W;O;KAjBX,C;6FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAA,eAAa,cAAb,C;QA
wDP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WAzDwB,SAzDwB,SAyDpB,EA
AU,
cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QAzDhB,OA0DO,W;O;KApEX,C;6FAaA,yB;MAAA,gE;MAA
A,uC;QAUW,kBAAA,eAAa,cAAb,C;QA2DP,gB;QADb,YAAY,C;QACC,2B;QAAb,OAAa,cAAb,C;UAAa,sB;UA
CT,WAAY,WA5DwB,SA4DpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;QA5DhB,OA6DO,W;O
;KAvEX,C;4FAaA,yB;MAAA,gE;MAAA,uC;QAUW,kBAAA,eAAa,cAAb,C;QA8DP,gB;QADb,YAAY,C;QACC,
2B;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,WAAY,WA/DwB,SA+DpB,EAAU,cAAV,EAAU,sBAAV,WAAmB,I
AAnB,CAAJ,C;;QA/DhB,OAgEO,W;O;KA1EX,C;iGAaA,6C;MAWiB,UACiB,M;MAF9B,YAAY,C;MACC,2B;MA
Ab,OAAa,cAAb,C;UAAa,sB;UACT,QACT,WAAY,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;
;MAChB,OAAO,W;K;;iGAGX,6C;MAWiB,UACiB,M;MAF9B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;UAAa,s
B;UACT,QACT,WAAY,WAAI,WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MAChB,OAAO,W;K;;iG
AGX,6C;MAWiB,UACiB,M;MAF9B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;UAAa,sB;UACT,QACT,WAAY,W
AAI,

WAAU,cAAV,EAAU,sBAAV,WAAmB,IAAnB,CAAJ,C;;MAChB,OAAO,W;K;iGAGX,6C;MAWiB,UACiB,M;
MAF9B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,WAAY,WAAI,WAAU,cAAV,EAAU,sBA
AV,WAAmB,IAAnB,CAAJ,C;;MAChB,OAAO,W;K;mFAGX,6C;MAQiB,Q;MAAA,2B;MAAb,OAAa,cAAb,C;Q
AAa,sB;QACT,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAAO,W;K;mFAGX,6C;MAQiB,Q;MAAA,2B;
MAAb,OAAa,cAAb,C;QAAa,sB;QACT,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB,OAAO,W;K;mFAGX,6
C;MAQiB,Q;MAAA,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,WAAY,WAAI,UAAU,IAAV,CAAJ,C;;MAChB
,OAAO,W;K;mFAGX,6C;MAQiB,Q;MAAA,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,WAAY,WAAI,UAAU,I
AAV,CAAJ,C;;MAChB,OAAO,W;K;IAUiB,6C;MAAA,mB;QAAE,gC;O;K;IAP9B,iC;MAOI,OAAO,qBAAiB,8B
AAjB,C;K;IAUiB,6C;MAAA,mB;QAAE,gC;O;K;IAP9B,iC;MAOI,OAAO,qBAAiB,8BAAjB,C;K;IAUiB,6C;MA
AA,mB;QAAE,gC;O;K;IAP9B,iC;MAOI,OAAO,qBAAiB,8BAAjB,C;K;IAUiB,6C;MAAA,mB;QAAE,gC;O;K;IA
P9B,iC;MAOI,OAAO,qBAAiB,8BAAjB,C;K;+EAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QA
AgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;+EAGX,gC;MASo
B,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,O
AAO,K;;MACtD,OAAO,I;K;+EAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,I
AAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,OAAO,I;K;+EAGX,gC;MASoB,Q;MAAA,2B;M
AAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,CAAC,UAAU,OAAV,CAAL,C;UAAyB,OAAO,K;;MACtD,
OAAO,I;K;+EAGX,yB;MAAA,0C;MAAA,4B;QASI,OAAe,IAAR,iBAAQ,C;O;KATnB,C;+EAYA,yB;MAAA,0C
;MAAA,4B;QASI,OAAe,IAAR,iBAAQ,C;O;KATnB,C;+EAYA,yB;MAAA,0C;MAAA,4B;QASI,OAAe,IAAR,iB
AAQ,C;O;KATnB,C;+EAYA,yB;MAAA,0C;MAAA,4B;QASI,OAAe,IAAR,iBAAQ,C;O;KATnB,C;+EAYA,gC;
MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,O
AAO,I;;MACrD,OAAO,K;K;+EAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,I
AAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+EAGX,gC;MASoB,Q;MAAA,2B;MAAhB,
OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,I;;MACrD,OAAO,K;K;+E
AGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;U
AAwB,OAAO,I;;MACrD,OAAO,K;K;mFAGX,gC;MAQoB,Q;MADhB,YAAY,C;MACI,2B;MAAhB,OAAgB,cA
AhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAQo
B,Q;MADhB,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;
UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAQoB,Q;MADhB,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAh
B,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,qB;;MAC9C,OAAO,K;K;mFAGX,gC;MAQoB,Q
;MADhB,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UA
AwB,qB;;MAC9C,OAAO,K;K;iFAGX,yC;MAaoB,Q;MADhB,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C
;QAAgB,yB;QAAM,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;iFAGX,yC;MAaoB,Q;MAD
hB,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cAAc,UAAU,WAAV,EAAuB,OAAvB
,C;;MACpC,OAAO,W;K;iFAGX,yC;MAaoB,Q;MADhB,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QA
Agb,yB;QAAM,cAAc,UAAU,WAAV,EAAuB,OAAvB,C;;MACpC,OAAO,W;K;iFAGX,yC;MAaoB,Q;MADh
B,kBAAkB,O;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cAAc,UAAU,WAAV,EAAuB,OAAvB,C
;;MACpC,OAAO,W;K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MACF,2B;MAAh
B,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OAA
hC,C;;MACpC,OAAO,W;K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MACF,2B;M
AAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,OA
AhC,C;;MACpC,OAAO,W;K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MACF,2b;
MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgC,O
AAhC,C;;MACpC,OAAO,W;K;+FAGX,yC;MAeoB,UAA8B,M;MAF9C,YAAY,C;MACZ,kBAAkB,O;MACF,2
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,cAAc,WAAU,cAAV,EAAU,sBAAV,WAAmB,WAAnB,EAAgc
,OAAhC,C;;MACpC,OAAO,W;K;0FAGX,yB;MA1uDI,8D;MA0uDJ,gD;QAeoC,Q;QAHhC,YAAtvDgB,cAAR,iB
AAQ,C;QAuvDhB,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAAI,YAAJ,EAAAI,oB
AAJ,QAA
V,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAtvDI,8D;MAsvDJ,gD;QAeoC,Q;QAHhC,Y
AlwDgB,cAAR,iBAAQ,C;QAmwDhB,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAA

I,YAAJ,EAAI,oBAAJ,QAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAjBX,C;2FAoBA,yB;MAlwDI,8D;MA
kwDJ,gD;QAeoC,Q;QAHhC,YA9wDgB,cAAR,iBAAQ,C;QA+wDhB,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,
C;UACI,cAAc,UAAU,uBAAI,YAAJ,EAAI,oBAAJ,QAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAjBX,C;2
FAoBA,yB;MA9wDI,8D;MA8wDJ,gD;QAeoC,Q;QAHhC,YA1xDgB,cAAR,iBAAQ,C;QA2xDhB,kBAAkB,O;Q
AClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,YAAJ,EAAI,oBAAJ,QAAV,EAAwB,WAAxB,C;;QA
ElB,OAAO,W;O;KAjBX,C;yGAoBA,yB;MA1zDI,8D;MA0zDJ,gD;QAaI,YAv0DgB,cAAR,iBAAQ,C;QAw0DhB,
kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,
WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAnBX,C;yGAsBA,yB;MAx0DI,8D;MAw0DJ,gD;QAaI,YAr1DgB,cA
AR,iBAAQ,C;QAs1DhB,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAA
I,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAnBX,C;yGAsBA,yB;MAt1DI,8D;MAs1DJ,
gD;QAaI,YAn2DgB,cAAR,iBAAQ,C;QAo2DhB,kBAAkB,O;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAA
U,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAnBX,C;yGAsBA,y
B;MAp2DI,8D;MAo2DJ,gD;QAaI,YAj3DgB,cAAR,iBAAQ,C;QAk3DhB,kBAAkB,O;QAClB,OAAO,SAAS,CAA
hB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;
O;KAnBX,C;uFAsBA,6B;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,
C;;K;uFAG1B,6B;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;uF
AG1B,6B;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;uFAG1B,6
B;MAOoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;K;qFAG1B,6B;MAU
iB,UAAa,M;MAD1B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP
,WAAgB,IAAhB,C;;K;qFAGvB,6B;MAUiB,UAAa,M;MAD1B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAA
a,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;qFAGvB,6B;MAUiB,UAAa,M;MAD1B,YAAY,
C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;K;qFAG
vB,6B;MAUiB,UAAa,M;MAD1B,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,E
AAO,sBAAP,WAAgB,IAAhB,C;;K;IAGvB,2B;MAKI,OAAO,uB;K;IAGX,2B;MAKI,OAAO,uB;K;IAGX,2B;MA
KI,OAAO,uB;K;IAGX,2B;MAKI,OAAO,uB;K;mFAGX,yB;MA9gEI,8D;MA8gEJ,sC;QAMW,sB;;UAAuCP,IAAI,
mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;;UAACf,cAAc,sBAAK,CAAL,C;UACd,gBA7jEgB,cAAR,iBAAQ,C;UA8jE
hB,IAAI,cAAAa,CAAAa,CAAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UAACpB,eA3CmB,QA2CJ,CAAS,OAAAT,C;
UACf,aAAU,CAAAV,OAAa,SAAb,M;YACI,QAAAQ,sBAAAK,CAAAL,C;YACR,QA9Ce,QA8CP,CAAAS,CAAAT,
C;YACR,IAAI,2B
AAW,CAAAX,KAAAJ,C;cACI,UAAAU,C;cACV,WAAAW,C;;;UAACaGnB,qBAAAO,O;;;QApDP,yB;O;KANJ,C;
mFASA,yB;MA/gEI,8D;MA+gEJ,sC;QAMW,sB;;UAAuCP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;;UAACf,ccc
cc,sBAAK,CAAL,C;UACd,gBA9kEgB,cAAR,iBAAQ,C;UA+kEhB,IAAI,cAAAa,CAAAa,CAAAjB,C;YAAoB,qBAA
O,O;YAAP,uB;;UAACpB,eA3DmB,QA2DJ,CAAS,OAAAT,C;UACf,aAAU,CAAAV,OAAa,SAAb,M;YACI,QAAAQ,
sBAAAK,CAAAL,C;YACR,QA9De,QA8DP,CAAAS,CAAAT,C;YACR,IAAI,2BAAW,CAAAX,KAAAJ,C;cACI,UAAA
U,C;cACV,WAAAW,C;;;UAACaGnB,qBAAAO,O;;;QApEP,yB;O;KANJ,C;mFASA,yB;MAhhEI,8D;MAghEJ,sC;QA
MW,sB;;UAAuCP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;;UAACf,ccccc,sBAAK,CAAL,C;UACd,gBA/lEgB,cA
AR,iBAAQ,C;UAgmEhB,IAAI,cAAAa,CAAAa,CAAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UAACpB,eA3EmB,QA2E
J,CAAS,OAAAT,C;UACf,aAAU,CAAAV,OAAa,SAAb,M;YACI,QAAAQ,sBAAAK,CAAAL,C;YACR,QA9Ee,QA8
EP,CAAAS,CAAAT,C;YACR,IAAI,2BAAW,CAAAX,KAAAJ,C;cACI,UAAAU,C;cACV,WAAAW,C;;;UAACaGn
B,qBAAAO,O;;;QApFP,yB;O;KANJ,C;+FASA,yB;MAljEI,8D;MAkjEJ,sC;QASI,IAAI,mBAAJ,C;UAAAe,OAAO,I;Q
AACtB,cAAc,sBAAK,CAAL,C;QACd,gBA7jEgB,cA6jEA,SA7jER,QAAQ,C;QA8jEhB,IAAI,cAAAa,CAAAa,CAAAjB,
C;UAAA,OAAAoB,OAAO,O;QAACtB,OAAA,sBAAAS,CAAAT,C;QACf,aAAU,CAAAV,OAAa,SAAb,M;UACI,UA
AAU,C;UACV,WAAAW,C;;;QAAC3B,OAAAoB,OAAO,O;O;KAACf,aAAAU,CAAAV,OAAAa,CAAAa,M;UACI,UA
ACI,QAAAQ,SAAAS,CAAAT,C;UAACR,IAAA,2BAAW,CAAAX,KAAAJ,C;YACI,YACI,UAAAU,C;YAACV,WA
ACV,WAAAW,C;;;QAAC;;QAAGnB,OAAAoB,O;O;O;KAtBX,C;+FAyBA,yB;MAnkEI,8D;MAmkEJ,sC;QASI,IAAI
,mBAAJ,C;UAAAe,OAAO,I;QAACtB,cAAc,sBAAK,CAAL,C;QACd,gBA9kEgB,cA8kEA,SA9kER,QAAQ,C;QA+
kEhB,IAAI,cAAAa,CAAAa,CAAAjB,C;UAAA,OAAAoB,OAAO,O;QAACtB,OAAA,sBAAAS,CAAAT,C;QACf,aA
AU,CAAAV,OAAa,SAAb,M;UACI,UAAAU,C;UACV,WAAAW,C;;;QAAC;;QAAGnB,OAAAoB,O;O;O;KAtBX,C;

oB,OAAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,sBAAK,CAAL,
C;UACR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QA
GnB,OAAO,O;O;KAtBX,C;+FAyBA,yB;MAplEI,8D;MAolEJ,sC;QASI,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,
cAAc,sBAAK,CAAL,C;QACd,gBA/lEgB,cA+lEA,SA/lER,QAAQ,C;QAgmEhB,IAAI,cAAa,CAAjB,C;UAAoB,O
AAO,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,sBAAK,CAAL,C;UA
CR,QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,O
AAO,O;O;KAtBX,C;+FAyBA,yB;MArmEI,8D;MAqmEJ,sC;QASI,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,cAAc
,sBAAK,CAAL,C;QACd,gBAhnEgB,cAgnEA,SAhnER,QAAQ,C;QAinEhB,IAAI,cAAa,CAAjB,C;UAAoB,OAA
O,O;QAC3B,eAAe,SAAS,OAAT,C;QACf,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,sBAAK,CAAL,C;UACR,
QAAQ,SAAS,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,UAAU,C;YACV,WAAW,C;;;QAGnB,OAA
O,O;O;KAtBX,C;kFAyBA,yB;MAAA,sE;MAtpEI,8D;MpBnwHJ,iB;MoBy5LA,sC;QAgBiB,Q;QAFb,IAAI,mBA
AJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAtqEG,cAAR,iBAAQ,C;QAsqEh
B,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBn6LG,MAAO,KoBm6LO,QpBn6L
P,EoBm6LiB,CpBn6LjB,C;;QoBq6Ld,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MArqEI,8D;MpB3wHJ,iB;
MoBg7LA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,
C;QACF,OArrEG,cAAR,iBAAQ,C;QAqrEhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UA
CR,WpB17LG,MAAO,KoB07LO,QpB17LP,EoB07LiB,CpB17LjB,C;;QoB47Ld,OAAO,Q;O;KApBX,C;mFAuBA
,yB;MAAA,sE;MAprEI,8D;MpBnxHJ,iB;MoBu8LA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QA
CrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OApsEG,cAAR,iBAAQ,C;QAosEhB,aAAU,CAAV,iB;UACI,Q
AAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBj9LG,MAAO,KoBi9LO,QpBj9LP,EoBi9LiB,CpBj9LjB,C;;QoB
m9Ld,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAnsEI,8D;MpB3xHJ,iB;MoB89LA,sC;QAgBiB,Q;QAFb
,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAntEG,cAAR,iBAAQ
,C;QAmtEhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBx+LG,MAAO,KoBw+L
O,QpBx+LP,EoBw+LiB,CpBx+LjB,C;;QoB0+Ld,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAlvEI,8D;M
pB9wHJ,iB;MoBggMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,C
AAL,CAAT,C;QACF,OAlwEG,cAAR,iBAAQ,C;QAkwEhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAA
L,CAAT,C;UACR,WpB1gMG,MAAO,KoB0gMO,QpB1gMP,EoB0gMiB,CpB1gMjB,C;;QoB4gMd,OAAO,Q;O;
KApBX,C;mFAuBA,yB;MAAA,sE;MAjwEI,8D;MpBtxHJ,iB;MoBuhMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;
UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAjxEG,cAAR,iBAAQ,C;QAixEhB,aA
AU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBjiMG,MAAO,KoBiiMO,QpBjiMP,EoBii
MiB,CpBjiMjB,C;;QoBmiMd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhxEI,8D;MpB9xHJ,iB;MoB8i
MA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QAC
F,OAhyEG,cAAR,iBAAQ,C;QAgyEhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,W
pBxjMG,MAAO,KoBwjMO,QpBxjMP,EoBwjMiB,CpBxjMjB,C;;QoB0jMd,OAAO,Q;O;KApBX,C;mFAuBA,yB;
MAAA,sE;MA/xEI,8D;MpBtyHJ,iB;MoBqkMA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB
,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/yEG,cAAR,iBAAQ,C;QA+yEhB,aAAU,CAAV,iB;UACI,QAA
Q,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB/kMG,MAAO,KoB+kMO,QpB/kMP,EoB+kMiB,CpB/kMjB,C;;Qo
BilMd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA90EI,8D;MA80EJ,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C
;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA51EG,cAAR,iBAAQ,C;QA41EhB,a
AAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI,WA
AW,C;;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA71EI,8D;MA61EJ,sC;QAciB,Q;QAFb,IAAI,
mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA32EG,cAAR,iBAAQ,C;Q
A22EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;Y
ACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA52EI,8D;MA42EJ,sC;QAciB,Q;QA
Fb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA13EG,cAAR,iBA
AQ,C;QA03EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,K
AAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA33EI,8D;MA23EJ,sC;QAc
iB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAz4EG,cA

AR,iBAAQ,C;QAy4EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,C
AAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;8FAuBA,yB;MA16EI,8D;MpBnwHJ,iB;MoB6q
MA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,O
Ax7EG,cAAR,iBAAQ,C;QAw7EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBr
rMG,MAAO,KoBqrMO,QpBrrMP,EoBqrMiB,CpBrrMjB,C;;QoBurMd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAv7
EI,8D;MpB3wHJ,iB;MoBksMA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAA
K,CAAL,CAAT,C;QACF,OAr8EG,cAAR,iBAAQ,C;QAq8EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,C
AAL,CAAT,C;UACR,WpB1sMG,MAAO,KoB0sMO,QpB1sMP,EoB0sMiB,CpB1sMjB,C;;QoB4sMd,OAAO,Q;O
;KAlBX,C;+FAqBA,yB;MAp8EI,8D;MpBnxHJ,iB;MoButMA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,
I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAl9EG,cAAR,iBAAQ,C;QAk9EhB,aAAU,CAAV,iB;UA
CI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB/tMG,MAAO,KoB+tMO,QpB/tMP,EoB+tMiB,CpB/tMjB,
C;;QoBiuMd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAj9EI,8D;MpB3xHJ,iB;MoB4uMA,sC;QAciB,Q;QAFb,IAAI,
mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/9EG,cAAR,iBAAQ,C;QA+9
EhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBpvMG,MAAO,KoBovMO,QpBp
vMP,EoBovMiB,CpBpvMjB,C;;QoBsvMd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA9/EI,8D;MpB9wHJ,iB;MoB4w
MA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,O
A5gFG,cAAR,iBAAQ,C;QA4gFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBp
xMG,MAAO,KoBoxMO,QpBpxMP,EoBoxMiB,CpBpxMjB,C;;QoBsxMd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;M
A3gFI,8D;MpBtxHJ,iB;MoBiyMA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBA
AK,CAAL,CAAT,C;QACF,OAzhFG,cAAR,iBAAQ,C;QAyhFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,
CAAL,CAAT,C;UACR,WpBzyMG,MAAO,KoByyMO,QpBzyMP,EoByyMiB,CpBzyMjB,C;;QoB2yMd,OAAO,Q
;O;KAlBX,C;+FAqBA,yB;MAxhFI,8D;MpB9xHJ,iB;MoBszMA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAA
O,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAtiFG,cAAR,iBAAQ,C;QAsiFhB,aAAU,CAAV,iB;U
ACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB9zMG,MAAO,KoB8zMO,QpB9zMP,EoB8zMiB,CpB9z
MjB,C;;QoBg0Md,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAriFI,8D;MpBtyHJ,iB;MoB20MA,sC;QAciB,Q;QAFb,I
AAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAnjFG,cAAR,iBAAQ,C;Q
AmjFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBn1MG,MAAO,KoBm1MO,
QpBn1MP,EoBm1MiB,CpBn1MjB,C;;QoBq1Md,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAllFI,8D;MAklFJ,sC;QA
YiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA9lFG,cAA
R,iBAAQ,C;QA8lFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CA
AX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA/lFI,8D;MA+lFJ,sC;QAYiB,Q;Q
AFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3mFG,cAAR,iBA
AQ,C;QA2mFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,K
AAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA5mFI,8D;MA4mFJ,sC;QAYiB,Q;QAF
b,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxnFG,cAAR,iBAAQ,
C;QAwnFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ
,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAznFI,8D;MAynFJ,sC;QAYiB,Q;QAFb,IAA
I,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAroFG,cAAR,iBAAQ,C;QAq
oFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YAC
I,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAtqFI,8D;MAsqFJ,kD;QAciB,Q;QAFb,IA
AI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAprFG,cAAR,iBAAQ,C;
QAorFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EA
AkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;0FAuBA,yB;MAAA,s
E;MArrFI,8D;MAqrFJ,kD;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAA
L,CAAT,C;QACF,OAnsFG,cAAR,iBAAQ,C;QAmsFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,C
AAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGn
B,OAAO,Q;O;KApBX,C;2FAqBA,yB;MAAA,sE;MApsFI,8D;MAosFJ,kD;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAA
e,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAltFG,cAAR,iBAAQ,C;QAktFhB,aAAU,CA

AV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,
GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;2FAuBA,yB;MAAA,sE;MAntFI,8D;MAmt
FJ,kD;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,
OAjuFG,cAAR,iBAAQ,C;QAiuFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,
UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApB
X,C;uGAuBA,yB;MAlwFI,8D;MAkwFJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAA
S,sBAAK,CAAL,CAAT,C;QACF,OA9wFG,cAAR,iBAAQ,C;QA8wFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,s
BAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,W
AAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;sGAqBA,yB;MA/wFI,8D;MA+wFJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,
C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3xFG,cAAR,iBAAQ,C;QA2xFhB,aA
AU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,
CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;uGAqBA,yB;MA5xFI,8D;MA4xFJ,
kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxy
FG,cAAR,iBAAQ,C;QAwyFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UA
AW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;
uGAqBA,yB;MAzyFI,8D;MAyyFJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sB
AAK,CAAL,CAAT,C;QACF,OArzFG,cAAR,iBAAQ,C;QAqzFhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,
CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAtC,C;YACI,WAAW,C;
;;QAGnB,OAAO,Q;O;KAlBX,C;IAqBA,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sB
AAK,CAAL,C;MACG,OA91FG,gBAAR,iBAAQ,C;MA81FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;
QACR,InC5mN8D,YmC4mN1D,GnC5mN2E,KAAjB,EmC4mNpD,CnC5mNiF,KAA7B,CmC4mN1D,IAAJ,C;UA
Aa,MAAM,C;;MAEvB,OAAO,G;O;K;IAGX,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,s
BAAK,CAAL,C;MACG,OAr2FG,gBAAR,iBAAQ,C;MAq2FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C
;QACR,InBnnN+D,amBmnN3D,GnBnnN6E,KAAlB,EmBmnNrD,CnBnnNmF,KAA9B,CmBmnN3D,IAAJ,C;UA
Aa,MAAM,C;;MAEvB,OAAO,G;O;K;IAGX,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,s
BAAK,CAAL,C;MACG,OA52FG,gBAAR,iBAAQ,C;MA52FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C
;QACR,IpC1pN4E,0BoC0pNxE,GpC/6M8B,KAAL,GAAiB,GA3O8B,EoC0pNlE,CpC/6MwB,KAAL,GAAiB,GA
3O8B,CoC0pNxE,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;O;K;IAGX,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;Q
AAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAn3FG,gBAAR,iBAAQ,C;MAm3FhB,aAAU,CAAV,iB
;QACI,QAAQ,sBAAK,CAAL,C;QACR,IlCjqN6E,0BkCiqNzE,GlC77M8B,KAAL,GAAiB,KApO+B,EkCiqNnE,C
lC77MwB,KAAL,GAAiB,KApO+B,CkCiqNzE,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;O;K;IAGX,2C;MAKI,
OAAO,4BAAc,UAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,
C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,C;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;M
ACtB,UAAU,sBAAK,CAAL,C;MACG,OA17FG,gBAAR,iBAAQ,C;MA07FhB,aAAU,CAAV,iB;QACI,QAAQ,s
BAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;
MAE9C,OAAO,G;O;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,
C;MACG,OAj8FG,gBAAR,iBAAQ,C;MAi8FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,U
AAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;O;K;IAGX,iD;
MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAx8FG,gBAAR,iB
AAQ,C;MAw8FhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,
CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;O;K;IAGX,2B;MAKI,OAAO,uB;K;IAG
X,2B;MAKI,OAAO,uB;K;IAGX,2B;MAKI,OAAO,uB;K;IAGX,2B;MAKI,OAAO,uB;K;IAGX,2B;MAKI,OAAO,u
B;K;IAGX,2B;MAKI,OAAO,uB;K;mFAGX,yB;MA9gGI,8D;MA8gGJ,sC;QAMW,sB;;UAuCP,IAAI,mBAAJ,C;Y
AAe,qBAAO,I;YAAP,uB;;UACf,cAAc,sBAAK,CAAL,C;UACd,gBA7jGgB,cAAR,iBAAQ,C;U
A8jGhB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eA3CmB,eA3CmB,QA2CJ,CAAS,OAA
T,C;UA3CY,OAAA,SAAb,gBAAa,C;UA3CZ,aAAa,M;YACG,OAAA,SAAb,gBAAa,C;;UA2CpB,IAAI,cAAa,CAAjB,
C;YAAoB,qBAAO,O;YAAP,uB;;UAGX,OAAA,SAAb,gBAAa,C;UA8BpB,qBAAO,M;;;QA4BP,yB;O;K;mFAGX,yB;

AI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QApDP,yB;O;KANJ,C;mFA
SA,yB;MA/gGI,8D;MA+gGJ,sC;QAMW,sB;;UAuDP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,s
BAAK,CAAL,C;UACd,gBA9kGgB,cAAR,iBAAQ,C;UA+kGhB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP
,uB;;UACpB,eA3DmB,QA2DJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAA
L,C;YACR,QA9De,QA8DP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAA
W,C;;;UAGnB,qBAAO,O;;;QApEP,yB;O;KANJ,C;mFASA,yB;MAhhGI,8D;MAghGJ,sC;QAMW,sB;;UAuEP,IA
AI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,sBAAK,CAAL,C;UACd,gBA/lGgB,cAAR,iBAAQ,C;UAg
mGhB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;UACpB,eA3EmB,QA2EJ,CAAS,OAAT,C;UACf,aA
AU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;YACR,QA9Ee,QA8EP,CAAS,CAAT,C;YACR,IAAI,
2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;UAGnB,qBAAO,O;;;QApFP,yB;O;KANJ,C;mFASA
,yB;MAjhGI,8D;MAihGJ,sC;QAMW,sB;;UAuFP,IAAI,mBAAJ,C;YAAe,qBAAO,I;YAAP,uB;;UACf,cAAc,sBAA
K,CAAL,C;UACd,gBAhnGgB,cAAR,iBAAQ,C;UAinGhB,IAAI,cAAa,CAAjB,C;YAAoB,qBAAO,O;YAAP,uB;;
UACpB,eA3FmB,QA2FJ,CAAS,OAAT,C;UACf,aAAU,CAAV,OAAa,SAAb,M;YACI,QAAQ,sBAAK,CAAL,C;
YACR,QA9Fe,QA8FP,CAAS,CAAT,C;YACR,IAAI,2BAAW,CAAX,KAAJ,C;cACI,UAAU,C;cACV,WAAW,C;;;
UAGnB,qBAAO,O;;;QApGP,yB;O;KANJ,C;+FASA,yB;MAljGI,8D;MAkjGJ,sC;QASI,IAAI,mBAAJ,C;YAAe,O
AAO,I;YAACtB,cAAc,sBAAK,CAAL,C;YACd,gBA7jGgB,cA6jGA,SA7jGR,QAAQ,C;YA8jGhB,IAAI,cAAa,CA
AjB,C;YAAoB,OAAO,O;YAAC3B,eAAe,SAAS,OAAT,C;YACf,aAAU,CAAV,OAAa,SAAb,M;cACI,QAAQ,sB
AAK,CAAL,C;cACR,QAAQ,SAAS,CAAT,C;cACR,IAAI,2BAAW,CAAX,KAAJ,C;gBACI,UAAU,C;cYACV,WAA
W,C;;;QAGnB,OAAO,O;O;O;KAtBX,C;+FAyBA,yB;MAnkGI,8D;MAmkGJ,sC;QASI,IAAI,mBAAJ,C;YAAe,OAA
O,I;YAACtB,cAAc,sBAAK,CAAL,C;YACd,gBA9kGgB,cA8kGA,SA9kGR,QAAQ,C;YA+kGhB,IAAI,cAAa,CA
AjB,C;YAAoB,OAAO,O;YAAC3B,eAAe,SAAS,OAAT,C;YACf,aAAU,CAAV,OAAa,SAAb,M;cACI,QAAQ,sBA
AK,CAAL,C;cACR,QAAQ,SAAS,CAAT,C;cACR,IAAI,2BAAW,CAAX,KAAJ,C;gBACI,UAAU,C;cYACV,WAAW,
C;;;QAGnB,OAAO,O;O;O;KAtBX,C;;;QAGnB,OAAO,O;O;O;KAlBX,C;kFAqBA,yB;MAppGI,8D;MAopGJ,sC;;Q
ASI,IAAI,mBAAJ,C;YAAe,OAAO,I;YAACtB,cAAc,sBAAK,CAAL,CAAT,C;QACF,OAAtqGG,cAAR,iBAAQ,C;Q
A;O;KAprGX,C;mFAupGA,yB;MAArGG,8D;MpB/iHJ,iB;MoBqsGN,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;YAAe,M
AAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAtqGG,cAAR,iBAAQ,C;QAsqGhB,aAAU,CAAV,
OAAa,SAAb,M;UACI,QAAQ,WpB/sNG,MAAO,KoB+sNP,EoB/sNiB,CpB+sNjB,C;;QoB;QoBitNd,OAAO,Q;O;O;KApB
X,C;mFAuBA,yB;MAArqGG,8D;MpB/jHJ,iB;MoByqGN,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;YAAe,MAAM,6B;Q
ACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OArrGG,cAAR,iBAAQ,C;QAqrGhB,aAAU,CAAV,OAAa,SA
Ab,M;UACI,QAAQ,WpB/tNG,MAAO,KoB+tNP,EoB/tNiB,CpB+tNjB,C;;QoB;QoBitNd,OAAO,Q;O;O;KApBX,C;m
FAuBA,yB;MAprGG,8D;MpB/kHJ,iB;MoB0rGN,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;YAAe,MAAM,6B;QACrB,e
Aee,SAAS,sBAAK,CAAL,CAAT,C;QACF,OApsGG,cAAR,iBAAQ,C;QAosGhB,aAAU,CAAV,OAAa,SAAb,M;
UACI,QAAQ,WpB7uNG,MAAO,KoB6uNP,EoB7uNiB,CpB6uNjB,C;;QoB;QoBitNd,OAAO,Q;O;O;KApBX,C;mFA
uBA,yB;MAplGG,8D;MpB/lHJ,iB;MoB0sGN,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;YAAe,MAAM,6B;QACrB,eAAe
,SAAS,sBAAK,CAAL,CAAT,C;QACF,OApsGG,cAAR,iBAAQ,C;QAosGhB,aAAU,CAAV,OAAa,SAAb,M;UACI
,QAAQ,WpB7vNG,MAAO,KoB6vNP,EoB6vNiB,CpB6vNjB,C;;QoB;QoBitNd,OAAO,Q;O;O;KApBX,C;mFAjwGI
,8D;MpBlkHJ,iB;MoBmuGN,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;YAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,
CAAL,CAAT,C;QACF,OAtqGG,cAAR,iBAAQ,C;QAkwGhB,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,WpBlkH
G,MAAO,KoBkkHP,EoBlkHiB,CpBkkHjB,C;;QoB;QoBitNd,OAAO,Q;O;O;KApBX,C;mFAjwGI,8D;MpBlkHJ,iB;
MoBm0NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;YAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C
;QACF,OAtqGG,cAAR,iBAAQ,C;QAkwGhB,aAAU,CAAV,OAAa,SAAb,M;UACI,QAAQ,WpBlwHG,MAAO,KoB
kwHP,EoBkwHiB,CpBkwHjB,C;;QoB;QoBwzNd,OAAO,Q;O;O;KApBX,C;mFAjwGI,8D;MpBlkHJ,iB;MoBm0NA,sC;
QAgBiB,Q;QAFb,IAAI,mB

AAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAjxGG,cAAR,iBAAQ,C;QAix
GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB70NG,MAAO,KoB60NO,QpB7
0NP,EoB60NiB,CpB70NjB,C;;QoB+0Nd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MAhxGI,8D;MpB1kHJ
,iB;MoB01NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CA
AT,C;QACF,OAhyGG,cAAR,iBAAQ,C;QAgyGhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,
C;UACR,WpBp2NG,MAAO,KoBo2NO,QpBp2NP,EoBo2NiB,CpBp2NjB,C;;QoBs2Nd,OAAO,Q;O;KApBX,C;m
FAuBA,yB;MAAA,sE;MA/xGI,8D;MpBllHJ,iB;MoBi3NA,sC;QAgBiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,
6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/yGG,cAAR,iBAAQ,C;QA+yGhB,aAAU,CAAV,iB;
UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB33NG,MAAO,KoB23NO,QpB33NP,EoB23NiB,CpB33
NjB,C;;QoB63Nd,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA90GI,8D;MA80GJ,sC;QAciB,Q;QAFb,IAA
I,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA51GG,cAAR,iBAAQ,C;
QA41GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;
YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA71GI,8D;MA61GJ,sC;QAciB,Q;Q
AFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA32GG,cAAR,iB
AAQ,C;QA22GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,
KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA52GI,8D;MA42GJ,sC;Q
AciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA13GG
,cAAR,iBAAQ,C;QA03GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAA
W,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;mFAuBA,yB;MAAA,sE;MA33GI,8D;MA
23GJ,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QAC
F,OAz4GG,cAAR,iBAAQ,C;QAy4GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,I
AAI,2BAAW,CAAX,KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;8FAuBA,yB;MA16GI,8D;MpB
/iHJ,iB;MoBy9NA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAA
T,C;QACF,OAx7GG,cAAR,iBAAQ,C;QAw7GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C
;UACR,WpBj+NG,MAAO,KoBi+NO,QpBj+NP,EoBi+NiB,CpBj+NjB,C;;QoBm+Nd,OAAO,Q;O;KAlBX,C;+FAq
BA,yB;MAv7GI,8D;MpBvjHJ,iB;MoB8+NA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,S
AAS,sBAAK,CAAL,CAAT,C;QACF,OAr8GG,cAAR,iBAAQ,C;QAq8GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS
,sBAAK,CAAL,CAAT,C;UACR,WpBt/NG,MAAO,KoBs/NO,QpBt/NP,EoBs/NiB,CpBt/NjB,C;;QoBw/Nd,OAAO
,Q;O;KAlBX,C;+FAqBA,yB;MAp8GI,8D;MpB/jHJ,iB;MoBmgOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,O
AAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAl9GG,cAAR,iBAAQ,C;QAk9GhB,aAAU,CAAV,
iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB3gOG,MAAO,KoB2gOO,QpB3gOP,EoB2gOiB,Cp
B3gOjB,C;;QoB6gOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAj9GI,8D;MpBvkHJ,iB;MoBwhOA,sC;QAciB,Q;QA
Fb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA/9GG,cAAR,iBAAQ
,C;QA+9GhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpBhiOG,MAAO,KoBgiO
O,QpBhiOP,EoBgiOiB,CpBhiOjB,C;;QoBkiOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA9/GI,8D;MpB1jHJ,iB;Mo
BwjOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF
,OA5gHG,cAAR,iBAAQ,C;QA4ghHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,W
pBhkOG,MAAO,KoBgkOO,QpBhkOP,EoBgkOiB,CpBhkOjB,C;;QoBkkOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;M
A3ghHI,8D;MpB1lHJ,iB;MoB6kOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBA
AK,CAAL,CAAT,C;QACF,OAzhHG,cAAR,iBAAQ,C;QAyhHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,
CAAL,CAAT,C;UACR,WpBrlOG,MAAO,KoBqlOO,QpBrlOP,EoBqlOiB,CpBrlOjB,C;;QoBulOd,OAAO,Q;O;K
AlBX,C;+FAqBA,yB;MAxhHI,8D;MpB1kHJ,iB;MoBkmOA,sC;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;
QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAtiHG,cAAR,iBAAQ,C;QAsiHhB,aAAU,CAAV,iB;UACI
,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB1mOG,MAAO,KoB0mOO,QpB1mOP,EoB0mOiB,CpB1mOj
B,C;;QoB4mOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAriHI,8D;MpBllHJ,iB;MoBunOA,sC;QAciB,Q;QAFb,IAA
I,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAnjHG,cAAR,iBAAQ,C;QA
mjHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,WpB/nOG,MAAO,KoB+nOO,Qp
B/nOP,EoB+nOiB,CpB/nOjB,C;;QoBioOd,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAllHI,8D;MAklHJ,sC;QAYiB,Q

;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA9lHG,cAAR,iB
AAQ,C;QA8lHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,
KAAJ,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA/lHI,8D;MA+lHJ,sC;QAYiB,Q;QAF
b,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3mHG,cAAR,iBAAQ,
C;QA2mHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAA
J,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MA5mHI,8D;MA4mHJ,sC;QAYiB,Q;QAFb,I
AAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAxnHG,cAAR,iBAAQ,C;
QAwnHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C
;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;+FAqBA,yB;MAznHI,8D;MAynHJ,sC;QAYiB,Q;QAFb,IAAI,
mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAroHG,cAAR,iBAAQ,C;QAqo
HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,2BAAW,CAAX,KAAJ,C;YACI
,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;2FAqBA,yB;MAAA,sE;MAtqHI,8D;MAsqHJ,kD;QAciB,Q;QAFb,IA
AI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAprHG,cAAR,iBAAQ,C;
QAorHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EA
AkB,CAAlB,CAAX,GAAkC,CAAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KApBX,C;0FAuBA,yB;MAAA,s
E;MArrHI,8D;MAqrHJ,kD;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CA
AL,CAAT,C;QACF,OAnsHG,cAAR,iBAAQ,C;QAmsHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,
CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAAtC,C;YACI,WAAW,C;;;QAG
nB,OAAO,Q;O;KApBX,C;2FAuBA,yB;MAAA,sE;MApsHI,8D;MAosHJ,kD;QAciB,Q;QAFb,IAAI,mBAAJ,C;UA
Ae,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OAltHG,cAAR,iBAAQ,C;QAktHhB,aAA
U,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,C
AAX,GAAkC,CAAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;2FAuBA,yB;MAAA,sE;MAntHI,8D;
MAmtHJ,kD;QAciB,Q;QAFb,IAAI,mBAAJ,C;UAAe,MAAM,6B;QACrB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;
QACF,OAjuHG,cAAR,iBAAQ,C;QAiuHhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UAC
R,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O
;KAlBX,C;uGAuBA,yB;MAlwHI,8D;MAkwHJ,kD;QAYiB,Q;QAFb,IAAI,mBAAJ,C;UAAe,OAAO,I;QACtB,eA
Ae,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA9wHG,cAAR,iBAAQ,C;QA8wHhB,aAAU,CAAV,iB;UACI,QAAQ,
SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,CAAlB,CAAX,GAAkC,CAAAtC,C;Y
ACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;sGAqBA,yB;MA/wHI,8D;MA+wHJ,kD;QAYiB,Q;QAFb,IAAI,
mBAAJ,C;UAAe,OAAO,I;QACtB,eAAe,SAAS,sBAAK,CAAL,CAAT,C;QACF,OA3xHG,cAAR,iBAAQ,C;QA2x
HhB,aAAU,CAAV,iB;UACI,QAAQ,SAAS,sBAAK,CAAL,CAAT,C;UACR,IAAI,UAAW,SAAQ,QAAR,EAAkB,
CAAlB,CAAX,GAAkC,CAAAtC,C;YACI,WAAW,C;;;QAGnB,OAAO,Q;O;KAlBX,C;IAqBA,iC;MAQiB,Q;MAFb
,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA91HG,gBAAR,iBAAQ,C;MA81HhB
,aAAU,CAAV,iB;QACI,QAAQ,sBAA
K,CAAL,C;QACR,InC5mP8D,YmC4mP1D,GnC5mP2E,KAAjB,EmC4mPpD,CnC5mPiF,KAA7B,CmC4mP1D,I
AAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACt
B,UAAU,sBAAK,CAAL,C;MACG,OAr2HG,gBAAR,iBAAQ,C;MAq2HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAA
K,CAAL,C;QACR,InBnnP+D,amBmnP3D,GnBnnP6E,KAAlB,EmBmnPrD,CnBnnPmF,KAA9B,CmBmnP3D,IA
AJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,iC;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB
,UAAU,sBAAK,CAAL,C;MACG,OA52HG,gBAAR,iBAAQ,C;MA42HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAA
K,CAAL,C;QACR,IpC1pP4E,0BoC0pPxE,GpC/6O8B,KAAL,GAAiB,GA3O8B,EoC0pPlE,CpC/6OwB,KAAL,GA
AiB,GA3O8B,CoC0pPxE,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,iC;MAQiB,Q;MAFb,IAAI,mBA

AJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAn3HG,gBAAR,iBAAQ,C;MAm3HhB,aAAU,C
AAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IlCjqP6E,0BkCiqPzE,GlC77O8B,KAAL,GAAiB,KApO+B,EkCiq
PnE,ClC77OwB,KAAL,GAAiB,KApO+B,CkCiqPzE,IAAJ,C;UAAa,MAAM,C;;MAEvB,OAAO,G;K;IAGX,2C;M
AKI,OAAO,4BAAc,UAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UA
Ad,C;K;IAGX,2C;MAKI,OAAO,4BAAc,UAAd,C;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;
MACtB,UAAU,sBAAK,CAAL,C;MACG,OA17HG,gBAAR,iBAAQ,C;MA07HhB,aAAU,CAAV,iB;QACI,QAAQ
,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C
;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAA
L,C;MACG,OAj8HG,gBAAR,iBAAQ,C;MAi8HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAA
I,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,i
D;MAQiB,Q;MAFb,IAAI,mBAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OAx8HG,gBAAR
,iBAAQ,C;MAw8HhB,aAAU,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAA
a,CAAb,CAAX,GAA6B,CAAjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;IAGX,iD;MAQiB,Q;MAFb,IAAI,m
BAAJ,C;QAAe,OAAO,I;MACtB,UAAU,sBAAK,CAAL,C;MACG,OA/8HG,gBAAR,iBAAQ,C;MA+8HhB,aAAU
,CAAV,iB;QACI,QAAQ,sBAAK,CAAL,C;QACR,IAAI,UAAW,SAAQ,GAAR,EAAa,CAAb,CAAX,GAA6B,CA
AjC,C;UAAoC,MAAM,C;;MAE9C,OAAO,G;K;iFAGX,qB;MASI,OAAO,mB;K;iFAGX,qB;MASI,OAAO,mB;K;
iFAGX,qB;MASI,OAAO,mB;K;iFAGX,qB;MASI,OAAO,mB;K;iFAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAA
gB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,g
C;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,IAAI,UAAU,OAAV,CAAJ,C;UAAwB,
OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MASoB,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,
IAAI,UAAU,OAAV,CAAJ,C;UAAwB,OAAO,K;;MACrD,OAAO,I;K;iFAGX,gC;MASoB,Q;MAAA,2B;MAAhB,
OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K;qF
AGX,6B;MAOmC,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB;K
;qFAGJ,6B;MAOmC,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,gB
;K;qFAGJ,6B;MAOmC,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAArC,
gB;K;qFAGJ,6B;MAOmC,Q;MAAA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QAAM,OAAO,OAAP,C;;MAAr
C,gB;K;mGAGJ,6B;MAtrEiB,gB;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,c
AAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAgsEnB,gB;K;mGAGJ,6B;MAtrEiB,gB;MADb,YAAY,C;MACC,2B;
MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,sBAAP,WAAgB,IAAhB,C;;MAgsEnB,gB;K;mGA
GJ,6B;MAtrEiB,gB;MADb,YAAY,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QAAM,QAAO,cAAP,EAAO,s
BAAP,WAAgB,IAAhB,C;;MAgsEnB,gB;K;qFAGJ,yB;MAAA,4F;MA9qII,8D;MA8qIJ,uC;QAmBqB,Q;QAHjB,IAAI,
mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAjsID,cAAR,iBAAQ,C
;QAisIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O
;K;qFAGX,yB;MAAA,4F;MA/rII,8D;MA+rIJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+B
AA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAltID,cAAR,iBAAQ,C;QAktIhB,iBAAc,CAAd,yB;UACI,cA
Ac,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;K;qFAGX,yB;MAAA,4F;MAhtII,8D;
MAgtIJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,C
AAL,C;QACD,OAnuID,cAAR,iBAAQ,C;QAmuIhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBA
AK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;K;qFAGX,yB;MAAA,4F;MAjuII,8D;MAiuIJ,uC;QAmBqB,Q;QAHjB,I
AAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OApvID,cAAR,iB
AAQ,C;QApvIhB,iB
AAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;K;mGAyB
A,yB;MAAA,4F;MAlxII,8D;MAkxIJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B
,C;QACV,kBAAkB,sBAAK,CAAL,C;QACD,OAtzID,cAAR,iBAAQ,C;QAszIhB,iBAAc,CAAd,yB;UACI,cAAc,

UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAtBX,C;mGAyBA,yB;
MAAA,4F;MApzII,8D;MAozIJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;Q
ACV,kBAAkB,sBAAK,CAAL,C;QACD,OAv0ID,cAAR,iBAAQ,C;QAu0IhB,iBAAc,CAAd,yB;UACI,cAAc,UAA
U,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAtBX,C;mGAyBA,yB;MAA
A,4F;MAr0II,8D;MAq0IJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,MAAM,mCAA8B,+BAA9B,C;QACV,k
BAAkB,sBAAK,CAAL,C;QACD,OAx1ID,cAAR,iBAAQ,C;QAw1IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KA
AV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KAtBX,C;+GAyBA,yB;MAt3II,8D;
MAs3IJ,uC;QAkBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAx4
ID,cAAR,iBAAQ,C;QAw4IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,K
AAL,CAA9B,C;;QAElB,OAAO,W;O;KArBX,C;+GAyBA,yB;MAt4II,8D;MAs4IJ,uC;QAkBqB,Q;QAHjB,IAAI,
mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAx5ID,cAAR,iBAAQ,C;QAw5IhB,iBAAc
,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;
KArBX,C;+GAyBA,yB;MAt5II,8D;MAs5IJ,uC;QAkBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBA
AkB,sBAAK,CAAL,C;QACD,OAx6ID,cAAR,iBAAQ,C;QAw6IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV
,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;;QAElB,OAAO,W;O;KArBX,C;+GAyBA,yB;MAt6II,8D;M
As6IJ,uC;QAkBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAx7ID
,cAAR,iBAAQ,C;QAw7IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAA
L,CAA9B,C;;QAElB,OAAO,W;O;KArBX,C;iGAwBA,yB;MAt9II,8D;MAs9IJ,uC;QAmBqB,Q;QAHjB,IAAI,mB
AAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OAz+ID,cAAR,iBAAQ,C;QAy+IhB,iBAAc,CA
Ad,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;iGAyBA,y
B;MAv+II,8D;MAu+IJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,
C;QACD,OA1/ID,cAAR,iBAAQ,C;QA0/IhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KA
AL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;iGAyBA,yB;MAx/II,8D;MAw/IJ,uC;QAmBqB,Q;QAHjB,IAAI,m
BAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAAL,C;QACD,OA3gJD,cAAR,iBAAQ,C;QA2gJhB,iBAAc,C
AAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;iGAyBA
,yB;MAzgJI,8D;MAygJJ,uC;QAmBqB,Q;QAHjB,IAAI,mBAAJ,C;UACI,OAAO,I;QACX,kBAAkB,sBAAK,CAA
L,C;QACD,OA5hJD,cAAR,iBAAQ,C;QA4hJhB,iBAAc,CAAd,yB;UACI,cAAc,UAAU,WAAV,EAAuB,sBAAK,
KAAL,CAAvB,C;;QAElB,OAAO,W;O;KAtBX,C;+FAyBA,yB;MAAA,4F;MA1jJI,8D;MA0jJJ,uC;QAkB0B,UAE
U,M;QAJhC,YA1kJgB,cAAR,iBAAQ,C;QA2kJhB,IAAI,QAAQ,CAAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;
QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cA
AJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+FAyBA,yB;MAAA,4F;MA3kJI,8D
;MA2kJJ,uC;QAkB0B,UAEU,M;QAJhC,YA3lJgB,cAAR,iBAAQ,C;QA4lJhB,IAAI,QAAQ,CAAZ,C;UAAe,MA
AM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UAC
I,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;+FAyBA,
yB;MAAA,4F;MA5lJI,8D;MA4lJJ,uC;QAkB0B,UAEU,M;QAJhC,YA5mJgB,cAAR,iBAAQ,C;QA6mJhB,IAAI,Q
AAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,O
AAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QAElB,OA
AO,W;O;KAtBX,C;6GAyBA,yB;MAAA,4F;MA9pJI,8D;MA8pJJ,uC;QAkB0B,Q;QAAFtB,YA9qJgB,cAAR,iBAAQ
,C;QA+qJhB,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,o
BAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7
B,C;UACd,qB;;QAEJ,OAAO,W;O;KAvBX,C;6GA0BA,yB;MAAA,4F;MAhrJI,8D;MAgrJJ,uC;QAkB0B,Q;QAAFtB,
YAhsJgB,cAAR,iBAAQ,C;QAitJhB,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB
,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,
CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAvBX,C;6GA0BA,yB;MAAA,4F;MAlsJI,8D;MAksJJ,u
C;QAkB0B,Q;QAAFtB,YAltJgB,cAAR,iBAAQ,C;QAmtJhB,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA
9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,
EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAvBX,C;6GA0BA,yB;MAlsJI,8D;
MAksJJ,uC;QAkB0B,Q;QAAFtB,YAltJgB,cAAR,iBAAQ,C;QAmtJhB,IAAI,QA

AQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;QAClB,OA
AO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA7B,C;UACd,qB;;Q
AEJ,OAAO,W;O;KAvBX,C;6GA0BA,yB;MAAA,4F;MAptJI,8D;MAotJJ,uC;QAkB0B,Q;QAFtB,YApuJgB,cAAR
,iBAAQ,C;QAquJhB,IAAI,QAAQ,CAAZ,C;UAAe,MAAM,mCAA8B,+BAA9B,C;QACrB,kBAAkB,uBAAI,YAA
J,EAAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EA
A6B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAvBX,C;yHA0BA,yB;MAtwJI,8D;MAswJJ,uC;QAiB0B,Q;QAF
tB,YArxJgB,cAAR,iBAAQ,C;QAsxJhB,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,uBAAI,YAAJ,E
AAI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6
B,WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAtBX,C;yHAyBA,yB;MAvxJI,8D;MAuxJJ,uC;QAiB0B,Q;QAFtB,
YAtyJgB,cAAR,iBAAQ,C;QAuyJhB,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,uBAAI,YAAJ,EA
AI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,
WAA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAtBX,C;yHAyBA,yB;MAxyJI,8D;MAwyJJ,uC;QAiB0B,Q;QAFtB,Y
AvzJgB,cAAR,iBAAQ,C;QAwzJhB,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,uBAAI,YAAJ,EAAI
,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,W
AA7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAtBX,C;2GAyBA,yB;MAzzJI,8D;MAyzJJ,uC;QAiB0B,Q;QAFtB,YAx0
JgB,cAAR,iBAAQ,C;QAy0JhB,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,uBAAI,YAAJ,EAAI,oB
AAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,KAAV,EAAiB,sBAAI,KAAJ,CAAjB,EAA6B,WAA
7B,C;UACd,qB;;QAEJ,OAAO,W;O;KAtBX,C;2GAyBA,yB;MA12JI,8D;MA02JJ,uC;QAkB0B,Q;UAEU,M;QAJhC,
YA13JgB,cAAR,iBAAQ,C;QA23JhB,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,uBAAI,YAAJ,EA
AI,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,
WAAxB,C;;QAElB,OAAO,W;O;KAtBX,C;2GAyBA,yB;MA33JI,8D;MA23JJ,uC;QAkB0B,Q;UAEU,M;QAJhC,YA
34JgB,cAAR,iBAAQ,C;QA44JhB,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,uBAAI,YAAJ,EAAI
,oBAAJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WA
AxB,C;;QAElB,OAAO,W;O;KAtBX,C;2GAyBA,yB;MA54JI,8D;MA44JJ,uC;QAkB0B,Q;UAEU,M;QAJhC,YA55Jg
B,cAAR,iBAAQ,C;QA65JhB,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,uBAAI,YAAJ,EAAI,oBA
AJ,Q;QAClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB
,C;;QAElB,OAAO,W;O;KAtBX,C;2GAyBA,yB;MA65JI,8D;MA65JJ,uC;QAkB0B,Q;UAEU,M;QAJhC,YA76JgB,cAA
R,iBAAQ,C;QA86JhB,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,kBAAkB,uBAAI,YAAJ,EAAI,oBAAJ,Q;Q
AClB,OAAO,SAAS,CAAhB,C;UACI,cAAc,UAAU,uBAAI,cAAJ,EAAI,sBAAJ,UAAV,EAAwB,WAAxB,C;;QA
ElB,OAAO,W;O;KAtBX,C;+FAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAkBoB,Q;QAHhB,IAAI,mBAAJ,C;
UAAe,OAAO,OAAP,C;QACc,kBAAAvB,eAAa,iBAAAO,CAAAP,IAAb,C;QAA+B,8B;QAA5C,arBrtRO,W;Q
qBstRP,kBAAkB,O;QACF,2B;QAAhB,OAAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAAU,WAAV,EAAuB,OA
AvB,C;UACd,MAAO,WAAI,WAAAJ,C;;QAEX,OAAAO,M;O;KAtBX,C;+FAyBA,yB;MAAA,gD;MAAA,gE;MAA
A,gD;QAkBoB,Q;QAHhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAP,C;QACc,kBAAAvB,eAAa,iBAAAO,CAAAP,IA
Ab,C;QAA+B,8B;QAA5C,arB9uRO,W;QqB+uRP,kBAAkB,O;QACF,2B;QAAhB,OAAAgB,cAAhB,C;UAAgB,yBa
Ay0BAyJ;B;UACZ,cAAc,UAAAU,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAAJ,C;;QAEX,OAAAO,M
;O;KAtBX,C;+FAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAkBoB,Q;QAHhB,IAAI,mBAAJ,C;UAAe,OAAO,O
AAP,C;QACc,kBAAAvB,eAAa,iBAAAO,CAAAP,IAAb,C;QAA+B,8B;QAA5C,arBvwRO,W;QqBwwRP,kBAAk
B,O;QACF,2B;QAAhB,OAAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAAU,WAAV,EAAuB,OAAvB,C;UACd,
MAAO,WAAI,WAAAJ,C;;QAEX,OAAAO,M;O;KAtBX,C;+FAyBA,yB;MAAA,gD;MAAA,gE;MAAA,gD;QAkBoB
,Q;QAHhB,IAAI,mBAAJ,C;UAAe,OAAO,OAAP,C;QACc,kBAAAvB,eAAa,iBAAAO,CAAAP,IAAb,C;QAA+B,8B
;QA5C,arBhyRO,W;QqBiyRP,kBAAkB,O;QACF,2B;QAAhB,OAAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAc,UAAA
U,WAAV,EAAuB,OAAvB,C;UACd,MAAO,WAAI,WAAAJ,C;;QAEX,OAAAO,M;O;KAtBX,C;6GAyBA,yB;MA
AA,gD;MAAA,gE;MAllKI,0D;MAklKJ,gD;QAmBkB,gC;QAHd,IAAI,mBAAJ,C;UAAe,OAAO,OAAP,C;QACc,kB
AAAvB,eAAa,iBAAAO,CAAAP,IAAb,C;QAA+B,8B;QA5C,arB1zRO,W;QqB2zRP,kBAAkB,O;QACJ,OArmKE,
YAAR,iBAAQ,C;QAqmKF,mB;QAAA,kB;QAAd,0D;UACl. O;;QAEP,OAAAgB,M;O;KAtBX,C;6GAyBA,yB;MAA
A,gD;MAAA,gE;MApmKI,0D;MAomKJ,gD;QAmBkB,gC;QAHd,IAAI,mBAAJ,C;UAAe,OAAO,OAAP,C;QACc,kB
AAAvB,eAAa,iBAAAO,CAAAP,IAAb,C;QAA+B,8B;QA5C,arBhyRO,W;QqB2zRP,kBAAkB,O;QACJ,OArmK
E,YAAR,iBAAQ,C;QAqmKF,mB;QAAA,kB;QAAd,0D;UClO;;QAEP,OAAAgB,M;O;KAtBX,C;6GAyBA,yB;MAA
A,gD;MAAA,gE;MApmKI,0D;MAomKJ,gD;QAmBkB,gC;QAHd,IAAI,mBAAJ,C;UAAe,OAAO,OAAP,C;QACc,O

AAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBp1RO,W;QqBq1RP,kBAAkB,O;Q
ACJ,OAvnKE,YAAR,iBAAQ,C;QAunKF,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,cAAc,UAAU,KAAV,EAAi
B,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;6G
A0BA,yB;MAAA,gD;MAAA,gE;MAtnKI,0D;MAsnKJ,gD;QAmBkB,gC;QAHd,IAAI,mBAAJ,C;UAAe,OAAO,O
AAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arB92RO,W;QqB+2RP,kBAA
kB,O;QACJ,OAzoKE,YAAR,iBAAQ,C;QAyoKF,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,cAAc,UAAU,KAA
V,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M;O;KAvB
X,C;6GA0BA,yB;MAAA,gD;MAAA,gE;MAxoKI,0D;MAwoKJ,gD;QAmBkB,gC;QAHd,IAAI,mBAAJ,C;UAAe,
OAAO,OAAO,OAAP,C;QACc,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,8B;QAA5C,arBx4RO,W;QqBy4
RP,kBAAkB,O;QACJ,OA3pKE,YAAR,iBAAQ,C;QA2pKF,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,cAAc,UA
AU,KAAV,EAAiB,WAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,WAAJ,C;;QAEX,OAAO,M
;O;KAvBX,C;mGA0BA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAkB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAA
O,W;QAACtB,sBAAkB,sBAAK,CAAL,CAAlB,C;QAACmC,kBAAtB,eAAgB,cAAhB,C;QAA8B,sBAAI,aAAJ,C;Q
AA3C,arBl6RO,W;QqBm6Re,qB;QAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,aAAV,EAAuB,sBAAK,KAAL
,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;mGAyBA,yB;MAAA,qD;MAAA,gE;M
AAA,uC;QAkB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QAACtB,sBAAkB,sBAAK,CAAL,CAAlB,C;QAC
oC,kBAAvB,eAAiB,cAAjB,C;QAA+B,sBAAI,aAAJ,C;QAA5C,arB37RO,W;QqB47Re,qB;QAAtB,iBAAc,CAAd,
wB;UACI,gBAAc,UAAU,aAAV,EAAuB,sBAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAA
O,M;O;KAtBX,C;mGAyBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAkB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,O
AAO,W;QAACtB,sBAAkB,sBAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,cAAjB,C;QAA+B,sBAAI,aAAJ,C;
QAA5C,arBp9RO,W;QqBq9Re,qB;QAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,aAAV,EAAuB,sBAAK,KAA
L,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAtBX,C;mGAyBA,yB;MAAA,qD;MAAA,gE;
MAAA,uC;QAkB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QAACtB,sBAAkB,sBAAK,CAAL,CAAlB,C;QA
CqC,kBAAxB,eAAkB,cAAlB,C;QAAgC,sBAAI,aAAJ,C;QAA7C,arB7+RO,W;QqB8+Re,qB;QAAtB,iBAAc,CA
Ad,wB;UACI,gBAAc,UAAU,aAAV,EAAuB,sBAAK,KAAL,CAAvB,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,O
AAO,M;O;KAtBX,C;iHAyBA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAmB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe
,OAAO,W;QAACtB,sBAAkB,sBAAK,CAAL,CAAlB,C;QACmC,kBAAtB,eAAgB,cAAhB,C;QAA8B,sBAAI,aA
AJ,C;QAA3C,arBvgSO,W;QqBwgSe,qB;QAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,aAAV,EAAuB,KAAV,E
AAiB,aAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;iH
A0BA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAmB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QAACtB,sB
AAkB,sBAAK,CAAL,CAAlB,C;QACoC,kBAAvB,eAAiB,cAAjB,C;QAA+B,sBAAI,aAAJ,C;QAA5C,arBjiSO,W;Qq
BkiSe,qB;QAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,KAAV,EAAiB,aAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;
UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;iHA0BA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QA
mB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OAAO,W;QAACtB,sBAAkB,sBAAK,CAAL,CAAlB,C;QACoC,kBAAvB,
eAAiB,cAAjB,C;QAA+B,sBAAI,aAAJ,C;QAA5C,arB3jSO,W;QqB4jSe,qB;QAAtB,iBAAc,CAAd,wB;UACI,gBA
Ac,UAAU,KAAV,EAAiB,aAAjB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO
,M;O;KAvBX,C;iHA0BA,yB;MAAA,qD;MAAA,gE;MAAA,uC;QAmB0B,Q;QAHtB,IAAI,mBAAJ,C;UAAe,OA
AO,W;QAACtB,sBAAkB,sBAAK,CAAL,CAAlB,C;QACqC,kBAAxB,eAAkB,cAAlB,C;QAAgC,sBAAI,aAAJ,C;Q
AA7C,arBrlSO,W;QqBslSe,qB;QAAtB,iBAAc,CAAd,wB;UACI,gBAAc,UAAU,aAAV,EAAuB,KAAV,EAAiB,aAA
jB,EAA8B,sBAAK,KAAL,CAA9B,C;UACd,MAAO,WAAI,aAAJ,C;;QAEX,OAAO,M;O;KAvBX,C;iFA0BA,yB;M
AxZA,gD;MAwZA,gE;MAwZA,gD;QAgBW,sB;;UAtZS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OAAyZH,OA
zZG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,sBAwZzzB,OAxZyB,C;UAA5C,arBrtRO,
W;UqBstRP,kBAAuZmB,O;O;UAtZH,2B;UAAhB,OAAgB,cAAhB,C;Y AAgb,yB;Y YACZ,cAqzwB,SArZV,CAA
U,WAAV,EAAu B,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;QAEX,qBAAO,M;;;MAkZP,yB;O;KAhBJ,C;iFA0
BA,yB;MAlZA,gD;MAwZA,gE;MAkZA,gD;QAgBW,sB;;UAhZS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OA
mZH,OAnZG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;QAA+B,sBAkZzzB,OAlZyB,C;UAA5C,
arB9uRO,W;UqB+uRP,kBAAiZmB,O;O;UAhZH,2B;UAAhB,OAAgB,cAAhB,C;YAAgb,yB;YYACZ,cA+ywB,S
A/YV,CAAU,WAAV,EAAu B,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;QAEX,qBAAO,M;;;MAgZP,yB;O;KA
4YP,yB;O;KA4BA,yB;M

A5YA,gD;MAAA,gE;MA4YA,gD;QAgBW,sB;;UA1YS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,OA6YH,OA7
YG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBA4YzB,OA5YyB,C;UAA5C,arBvw
RO,W;UqBwwRP,kBA2YmB,O;UA1YH,2B;UAAhB,OAAgB,cAAhB,C;YAAgB,yB;YACZ,cAyYwB,SAzYV,C
AAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAsYP,yB;O;KAhBJ,C;iF
AmBA,yB;MAtYA,gD;MAAA,gE;MAsYA,gD;QAgBW,sB;;UApYS,Q;UAHhB,IAAI,mBAAJ,C;YAAe,qBAAO,
OAuYH,OAvYG,C;YAAP,uB;;UACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBAsYzB,OAtYyB,C;U
AA5C,arBhyRO,W;UqBiyRP,kBAqYmB,O;UApYH,2B;UAAhB,OAAgB,cAAhB,C;YAAgB,yB;YACZ,cAmYwB
,SAnYV,CAAU,WAAV,EAAuB,OAAvB,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,qBAAO,M;;;QAgYP,yB;O;K
AhBJ,C;+FAmBA,yB;MAhYA,gD;MAAA,gE;MAllKI,0D;MAk9KJ,gD;QAiBW,6B;;UA9XO,gC;UAHd,IAAI,mB
AAJ,C;YAAe,4BAAO,OAiYI,OAjYJ,C;YAAP,8B;;UACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBA
gYlB,OAhYkB,C;UAA5C,arB1zRO,W;UqB2zRP,kBA+X0B,O;UA9XZ,OArmKE,YAAR,iBAAAQ,C;UAqmKF,m
B;UAAA,kB;UAAA,kB;UAAd,0D;YACI,cA6X+B,SA7XjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAAK,KA
AL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QA0XP,gC;O;KAjBJ,C;+FAoBA,yB;MA1XA
,gD;MAAA,gE;MApmKI,0D;MA89KJ,gD;QAiBW,6B;;UAxXO,gC;UAHd,IAAI,mBAAJ,C;YAAe,4BAAO,OA2
XI,OA3XJ,C;YAAP,8B;;UACqB,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBA0XlB,OA1XkB,C;UAA5C,
arBp1RO,W;UqBq1RP,kBAyX0B,O;UAxXZ,OAvnKE,YAAR,iBAAAQ,C;UAunKF,mB;UAAA,kB;UAAA,kB;UA
Ad,0D;YACI,cAuX+B,SAvXjB,CAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAAK,KAAL,CAA9B,C;YACd,MAAO
,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAoXP,gC;O;KAjBJ,C;+FAoBA,yB;MApXA,gD;MAAA,gE;MAtnKI,0D;
MA0+KJ,gD;QAiBW,6B;;UAlXO,gC;UAHd,IAAI,mBAAJ,C;YAAe,4BAAO,OAqXI,OArXJ,C;YAAP,8B;;UACq
B,kBAAvB,eAAa,iBAAO,CAAP,IAAb,C;UAA+B,sBAoXlB,OApXkB,C;UAA5C,arB92RO,W;UqB+2RP,kBAm
X0B,O;UAlXZ,OAzoKE,YAAR,iBAAAQ,C;UAyoKF,mB;UAAA,kB;UAAA,kB;UAAd,0D;YACI,cAiX+B,SAjXjB
,CAAU,KAAV,EAAiB,WAAjB,EAA8B,sBAAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAA
O,M;;;QA8WP,gC;O;KAjBJ,C;+FAoBA,yB;MA9WA,gD;MAAA,gE;MAxoKI,0D;MAs/KJ,gD;QAiBW,6B;;UA5
WO,gC;UAHd,IAAI,mBAAJ,C;YAAe,4BAAO,OA+WI,OA/WJ,C;YAAP,8B;;UACqB,kBAAvB,eAAa,iBAAO,C
AAP,IAAb,C;UAA+B,sBA8WlB,OA9WkB,C;UAA5C,arBx4RO,W;UqBy4RP,kBA6W0B,O;UA5WZ,OA3pKE,Y
AAR,iBAAAQ,C;UA2pKF,mB;UAAA,kB;UAAA,kB;UAAd,0D;YACI,cA2W+B,SA3WjB,CAAU,KAAV,EAAiB,
WAAjB,EAA8B,sBAAAK,KAAL,CAA9B,C;YACd,MAAO,WAAI,WAAJ,C;;UAEX,4BAAO,M;;;QAwWP,gC;O;
KAjBJ,C;mFAoBA,yB;MAAA,wB;MAAA,sC;QAUoB,Q;QADhB,UAAgB,W;QACA,2B;QAAhB,OAAgB,cAAh
B,C;UAAgB,yB;YACZ,MnCvwSiD,SmCuwSjD,GnCvwS2D,KAAK,GmCuwSzD,SAAS,OAAT,CnCvwSoE,KAA
X,IAAf,C;;QmCywSrD,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,wB;MAAA,sC;QAUoB,Q;QADhB,UAAgB,W
;QACA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;YACZ,MnCvxSiD,SmCuxSjD,GnCvxS2D,KAAK,GmCuxSz
D,SAAS,OAAT,CnCvxSoE,KAAX,IAAf,C;;QmCyxSrD,OAAO,G;O;KAbX,C;mFAgBA,yB;MAAA,wB;MAAA,s
C;QAUoB,Q;QADhB,UAAgB,W;QACA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;YACZ,MnCvySiD,SmCuySj
D,GnCvyS2D,KAAK,GmCuySzD,SAAS,OAAT,CnCvySoE,KAAX,IAAf,C;;QmCyySrD,OAAO,G;O;KAbX,C;m
FAgBA,yB;MAAA,wB;MAAA,sC;QAUoB,Q;QADhB,UAAgB,W;QACA,2B;QAAhB,OAAgB,cAAhB,C;UAAgB
,yB;YACZ,MnCvzSiD,SmCuzSjD,GnCvzS2D,KAAK,GmCuzSzD,SAAS,OAAT,CnCvzSoE,KAAX,IAAf,C;;QmC
yzSrD,OAAO,G;O;KAbX,C;8FAgBA,+B;MAUoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAgB,cAAhB,C;
QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;+FAGX,+B;MAUoB,Q;MADhB,UAAkB,G;MA
CF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;+FAGX,+B;
MAUoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,
C;;MAEX,OAAO,G;K;+FAGX,+B;MAUoB,Q;MADhB,UAAkB,G;MACF,2B;MAAhB,OAAgB,cAAhB,C;QAAg
B,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;kFAGX,+B;MAYoB,Q;MADhB,UAAoB,C;MACJ,2
B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;mFAGX,+B;MAYo
B,Q;MADhB,UAAoB,C;MACJ,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAE
X,OAAO,G;K;mFAGX,+B;MAYoB,Q;MADhB,UAAoB,C;MACJ,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Q
ACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;mFAGX,+B;MAYoB,Q;M
ADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,

OAAO,G;K;mFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ
,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAYoB,Q;MADhB,UAAe,C;MACC,2B;MAAhB
,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MAEJ,OAAO,G;K;mFAGX,+B;MAYoB,Q
;MADhB,UAAe,C;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,YAAO,SAAS,OAAT,CAAP,I;;MA
EJ,OAAO,G;K;mFAGX,yB;MAAA,SAWoB,gB;MAXpB,sC;QAYoB,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,
cAAhB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAfX,C;mFAkBA,yB;MAAA,S
AWoB,gB;MAXpB,sC;QAYoB,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAO,S
AAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAfX,C;mFAkBA,yB;MAAA,SAWoB,gB;MAXpB,sC;QAYoB,Q;QA
DhB,Y;QACgB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,
G;O;KAfX,C;mFAkBA,yB;MAAA,SAWoB,gB;MAXpB,sC;QAYoB,Q;QADhB,Y;QACgB,2B;QAAhB,OAAgB,c
AAhB,C;UAAgB,yB;UACZ,cAAO,SAAS,OAAT,CAAP,C;;QAEJ,OAAO,G;O;KAfX,C;mFAkBA,yB;MnC5xSA,
6B;MmC4xSA,sC;QAaoB,Q;QADhB,UnC9xSmC,cmC8xSnB,CnC9xSmB,C;QmC+xSnB,2B;QAAhB,OAAgB,cA
AhB,C;UAAgB,yB;UACZ,MnClmTiD,cmCkmTjD,GnClmT2D,KAAK,GmCkmTzD,SAAS,OAAT,CnClmToE,K
AAX,IAAf,C;;QmComTrD,OAAO,G;O;KAhBX,C;mFAmBA,yB;MnC/ySA,6B;MmC+ySA,sC;QAaoB,Q;QADhB
,UnCjzSmC,cmCizSnB,CnCjzSmB,C;QmCkzSnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnCrnTiD,c
mCqnTjD,GnCrnT2D,KAAK,GmCqnTzD,SAAS,OAAT,CnCrnToE,KAAX,IAAf,C;;QmCunTrD,OAAO,G;O;KA
hBX,C;mFAmBA,yB;MnCl0SA,6B;MmCk0SA,sC;QAaoB,Q;QADhB,UnCp0SmC,cmCo0SnB,CnCp0SmB,C;QmC
q0SnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnCxoTiD,cmCwoTjD,GnCxoT2D,KAAK,GmCwoT
zD,SAAS,OAAT,CnCxoToE,KAAX,IAAf,C;;QmC0oTrD,OAAO,G;O;KAhBX,C;mFAmBA,yB;MnCr1SA,6B;M
mCq1SA,sC;QAaoB,Q;QADhB,UnCv1SmC,cmCu1SnB,CnCv1SmB,C;QmCw1SnB,2B;QAAhB,OAAgB,cAAhB,
C;UAAgB,yB;UACZ,MnC3pTiD,cmC2pTjD,GnC3pT2D,KAAK,GmC2pTzD,SAAS,OAAT,CnC3pToE,KAAX,IA
Af,C;;QmC6pTrD,OAAO,G;O;KAhBX,C;mFAmBA,yB;MnBr2SA,+B;MmBq2SA,sC;QAaoB,Q;QADhB,UnBt2S
qC,eAAW,oBmBs2S/B,CnBt2S+B,CAAX,C;QmBu2SrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnB
3qTmD,emB2qTnD,GnB3qT8D,KAAK,KmB2qT5D,SAAS,OAAT,CnB3qTuE,KAAX,CAAhB,C;;QmB6qTvD,O
AAO,G;O;KAhBX,C;mFAmBA,yB;MnBx3SA,+B;MmBw3SA,sC;QAaoB,Q;QADhB,UnBz3SqC,eAAW,oBmBy3
S/B,CnBz3S+B,CAAX,C;QmB03SrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnB9rTmD,emB8rTnD,
GnB9rT8D,KAAK,KmB8rT5D,SAAS,OAAT,CnB9rTuE,KAAX,CAAhB,C;;QmBgsTvD,OAAO,G;O;KAhBX,C;
mFAmBA,yB;MnB34SA,+B;MmB24SA,sC;QAaoB,Q;QADhB,UnB54SqC,eAAW,oBmB44S/B,CnB54S+B,CAA
X,C;QmB64SrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnBjtTmD,emBitTnD,GnBjtT8D,KAAK,Km
BitT5D,SAAS,OAAT,CnBjtTuE,KAAX,CAAhB,C;;QmBmtTvD,OAAO,G;O;KAhBX,C;mFAmBA,yB;MnB95SA
,+B;MmB85SA,sC;QAaoB,Q;QADhB,UnB/5SqC,eAAW,oBmB+5S/B,CnB/5S+B,CAAX,C;QmBg6SrB,2B;QAAh
B,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnBpuTmD,emBouTnD,GnBpuT8D,KAAK,KmBouT5D,SAAS,OAAT,
CnBpuTuE,KAAX,CAAhB,C;;QmBsuTvD,OAAO,G;O;KAhBX,C;IAmBA,kC;MA2DI,WpBnnTO,MAAO,KoBm
nTG,cpBnnTH,EoBikTH,KAkDkB,OpBnnTf,C;MoBonTd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB
,IAAlB,M;QACI,IAAK,WArDqB,GAqDP,sBAAK,CAAL,CArDO,EAAnB,KAqDqB,CAAM,CAAN,CArDF,CAq
DrB,C;;MArDT,OAuDO,I;K;IApDX,kC;MAkEI,WpBnnTO,MAAO,KoBmnTG,cpBnnTH,EoBikTH,KAAK,DkB,OpBt
oTf,C;MoBuoTd,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WA5DqB,GA4DP
,sBAAK,CAAL,CA5DO,EAAnB,KA4DqB,CAAM,CAAN,CA5DF,CA4DrB,C;;MA5DT,OA8DO,I;K;IA3DX,kC;
;MAyEI,WpBnzTO,MAAO,KoBypTG,cpBnzTH,EoBylTH,KAgEkB,OpBnzTf,C;MoB0zTd,WAAW,iBAAa,IAAb
,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WAnEqB,GAmEP,sBAAK,CAAL,CAnEO,EAAnB,KA
mEqB,CAAM,CAAN,CAnEF,CAmErB,C;;MAnET,OAqEO,I;K;;MAnET,OAqEO,I;K;IAlEX,kC;MAnET,OAqEO,
I;K;IAlEX,+EAzEX,yB;MAAA,gE;MpB9mTA,iB;MoB8mTA,8C;QAWI,WpBnnTO,MAAO,KoBBmnTG,cpBnnTH
,EoBmnTS,KAAM,OpBnnTf,C;MoBonTd,WAAW,eAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI
,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;MAAL,OAAO,G;O;KAE
T,OAuDO,I;K;;QAET,OAAO,I;O;KAhBX,C;;MAnET,OAAI,I;O;KAhBX,C;;QAET,OAAO,I;O;KAhBX,C;IAmBA,k
C;MA2DI,WpBBtoTO,MAAO,KoBmnTG,cpBBtoTH,EoBsoTS,KAAM,OpBBtoTf,C;MoBuoTd,WAAW,eAAa,IA
Ab,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;U

ACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;K
AhBX,C;+EAmBA,yB;MAAA,gE;MpBppTA,iB;MoBopTA,8C;QAWI,WpBzpTO,MAAO,KoBypTG,cpBzpTH,E
oBypTS,KAAM,OpBzpTf,C;QoB0pTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IA
AK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,
C;+EAmBA,yB;MAAA,gE;MpBvqTA,iB;MoBuqTA,8C;QAWI,WpB5qTO,MAAO,KoB4qTG,cpB5qTH,EoB4qT
S,KAAM,OpB5qTf,C;QoB6qTd,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;UACI,IAAK,W
AAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,MAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;KAhBX,C;IAm
BA,kC;MA8DoB,gB;MAHhB,gBAAgB,c;MAChB,WAAW,iBpBhvTJ,MAAO,KoBgvTsB,wBAnDzB,KAmDyB,E
AAwB,EAAxB,CpBhvTtB,EoBgvTmD,SpBhvTnD,CoBgvTH,C;MACX,QAAQ,C;MACQ,OArDL,KAqDK,W;M
AAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAvDqB,GAuDP,
uBAAK,UAAL,EAAK,kBAAL,UAvDO,EAuDI,OAvDJ,CAuDrB,C;;MAvDT,OAyDO,I;K;IAtDX,kC;MAuEoB,g
B;MAHhB,gBAAgB,c;MAChB,WAAW,iBpBrwTJ,MAAO,KoBqwTsB,wBA5DzB,KA4DyB,EAAwB,EAAxB,Cp
BrwTtB,EoBqwTmD,SpBrwTnD,CoBqwTH,C;MACX,QAAQ,C;MACQ,OA9DL,KA8DK,W;MAAhB,OAAgB,c
AAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAhEqB,GAgEP,uBAAK,UAAL,E
AAK,kBAAL,UAhEO,EAgEI,OAhEJ,CAgEErB,C;;MAhET,OAkEO,I;K;IA/DX,kC;MAgFoB,gB;MAHhB,gBAAg
B,c;MAChB,WAAW,iBpB1xTJ,MAAO,KoB0xTsB,wBArEzB,KAqEyB,EAAwB,EAAxB,CpB1xTtB,EoB0xTmD,
SpB1xTnD,CoB0xTH,C;MACX,QAAQ,C;MACQ,OAvEL,KAuEK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;Q
ACZ,IAAI,KAAK,SAAT,C;UAAoB,K;QACpB,IAAK,WAzEqB,GAyEP,uBAAK,UAAL,EAAK,kBAAL,UAzEO,
EAyEI,OAzEJ,CAyEErB,C;;MAzET,OA2EO,I;K;IAxEX,kC;MAyFoB,gB;MAHhB,gBAAgB,c;MAChB,WAAW,iB
pB/yTJ,MAAO,KoB+yTsB,wBA9EzB,KA8EyB,EAAwB,EAAxB,CpB/yTtB,EoB+yTmD,SpB/yTnD,CoB+yTH,C;
MACX,QAAQ,C;MACQ,OAhFL,KAgFK,W;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,KAAK,SAAT,C;
UAAoB,K;QACpB,IAAK,WAlFqB,GAkFP,uBAAK,UAAL,EAAK,kBAAL,UAlFO,EAkFI,OAlFJ,CAkFErB,C;;
MAlFT,OAoFO,I;K;+EAjFX,yB;MAAA,kF;MAAA,gE;MpB1uTA,iB;MoB0uTA,8C;QAcoB,UAEY,M;QAL5B,g
BAAgB,c;QAChB,WAAW,epBhvTJ,MAAO,KoBgvTsB,wBAAN,KAAM,EAAwB,EAAxB,CpBhvTtB,EoBgvTm
D,SpBhvTnD,CoBgvTH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAACZ,IAAI,KAA
K,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,uBAAK,UAAL,EAAK,kBAAL,UAAV,EAAqB,OAAArB,CA
AJ,C;;QAET,OAAO,I;O;KAlBX,C;+EAqBA,yB;MAAA,kF;MAAA,gE;MpB/vTA,iB;MoB+vTA,8C;QAcoB,UAE
Y,M;QAL5B,gBAAgB,c;QAChB,WAAW,epBrwTJ,MAAO,KoBqwTsB,wBAAN,KAAM,EAAwB,EAAxB,CpBr
wTtB,EoBqwTmD,SpBrwTnD,CoBqwTH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;
UAACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,uBAAK,UAAL,EAAK,kBAAL,UAAV,E
AAqB,OAAArB,CAAJ,C;;QAET,OAAO,I;O;KAlBX,C;+EAqBA,yB;MAAA,kF;MAAA,gE;MpBpxTA,iB;MoBox
TA,8C;QAcoB,UAEY,M;QAL5B,gBAAgB,c;QAChB,WAAW,epB1xTJ,MAAO,KoB0xTsB,wBAAN,KAAM,EA
AwB,EAAxB,CpB1xTtB,EoB0xTmD,SpB1xTnD,CoB0xTH,C;QACX,QAAQ,C;QACQ,uB;QAAhB,OAAgB,cAA
hB,C;UAAgB,yB;UAACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,uBAAK,UAAL,EAA
K,kBAAL,UAAV,EAAqB,OAAArB,CAAJ,C;;QAET,OAAO,I;O;KAlBX,C;8EAqBA,yB;MAAA,kF;MAAA,gE;M
pBzyTA,iB;MoByyTA,8C;QAcoB,UAEY,M;QAL5B,gBAAgB,c;QAChB,WAAW,epB/yTJ,MAAO,KoB+yTsB,wB
AAN,KAAM,EAAwB,EAAxB,CpB/yTtB,EoB+yTmD,SpB/yTnD,CoB+yTH,C;QACX,QAAQ,C;QACQ,uB;QA
AhB,OAAgB,cAAhB,C;UAAgB,yB;UAACZ,IAAI,KAAK,SAAT,C;YAAoB,K;UACpB,IAAK,WAAI,UAAU,uBA
AK,U
AAL,EAAK,kBAAL,UAAV,EAAqB,OAAArB,CAAJ,C;;QAET,OAAO,I;O;KAlBX,C;IAqBA,kC;MA2DI,WpBn3T
O,MAAO,KoBm3TG,cpBn3TH,EoBi0TH,KAkDkB,KpBn3Tf,C;MoBo3Td,WAAW,iBAAa,IAAb,C;MACX,aAA
U,CAAV,MAAkB,IAAlB,M;QACI,IAAK,WArDqB,GAqDP,sBAAK,CAAL,CArDO,EAqDH,KAqDqB,aAAM,C
AAN,CAAV,EArDH,OAqDD,CArDC,C;;MArDT,OAuDO,I;K;IApDX,kC;MAkEI,WpBt4TO,MAAO,KoBs4TG,cpB
t4TH,EoBB60TH,KAyDkB,KpBt4Tf,C;MoBu4Td,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAl
B,M;QACI,IAAK,WA5DqB,GA5DqB,GA4DP,sBAAK,CAAL,CA5DO,EA4DH,KA4DqB,aAAM,CAAN,CAAV,
EA5DH,OA4DD,CA5DC,C;;MA5DT,OA8DO,I;K;IA3DX,kC;MAyEI,WpBz5TO,MAAO,KoBy5TG,cpBz5TH,EoB
y1TH,KAgEkB,KpBz5Tf,C;MoB05Td,WAAW,iBAAa,IAAb,C;MACX,aAAU,CAAV,MAAkB,IAAlB,M;QACI,I
AAK,WAnEqB,GAmEP,sBAAK,CAAL,CAnEO,EAmEH,KAmEqB,aAAM,CAAN,CAAV,EAnEH,OAmED,CAnE
C,C;;MAnET,OAqEO,I;K;IAlEX,kC;MAgFI,WpB56TO,MAAO,KoB46TG,cpB56TH,EoBq2TH,KAuEkB,KpB56T
f,C;MoB66Td,WAAW,iBAAa,IAAb,C;MACX,aAAU,C

AAV,MAAkB,IAAlB,M;QACI,IAAK,WA1EqB,GA0EP,sBAAK,CAAL,CA1EO,EAAnB,KA0EqB,aAAM,CAAN,
CA1EF,CA0ErB,C;;MA1ET,OA4EO,I;K;+EAzEX,yB;MAAA,gE;MpB92TA,iB;MoB82TA,8C;QAWI,WpBn3TO,
MAAO,KoBm3TG,cpBn3TH,EoBm3TS,KAAM,KpBn3Tf,C;QoBo3Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CA
AV,MAAkB,IAAlB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,kBAAM,CAAN,CAAnB,CA
AJ,C;;QAET,OAAO,I;O;KAhBX,C;+EAmBA,yB;MAAA,gE;MpBj4TA,iB;MoBi4TA,8C;QAWI,WpBt4TO,MAA
O,KoBs4TG,cpBt4TH,EoBs4TS,KAAM,KpBt4Tf,C;QoBu4Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAA
kB,IAAlB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAE
T,OAAO,I;O;KAhBX,C;+EAmBA,yB;MAAA,gE;MpBp5TA,iB;MoBo5TA,8C;QAWI,WpBz5TO,MAAO,KoBy5
TG,cpBz5TH,EoBy5TS,KAAM,KpBz5Tf,C;QoB05Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAA
lB,M;UACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAA
O,I;O;KAhBX,C;+EAmBA,yB;MAAA,gE;MpBv6TA,iB;MoBu6TA,8C;QAWI,WpB56TO,MAAO,KoB46TG,cpB
56TH,EoB46TS,KAAM,KpB56Tf,C;QoB66Td,WAAW,eAAa,IAAb,C;QACX,aAAU,CAAV,MAAkB,IAAlB,M;U
ACI,IAAK,WAAI,UAAU,sBAAK,CAAL,CAAV,EAAmB,kBAAM,CAAN,CAAnB,CAAJ,C;;QAET,OAAO,I;O;
KAhBX,C;IAmBA,2B;MAQoB,Q;MADhB,UAAgB,W;MAChB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;
QACI,MnCjnUiD,SmCinUjD,GnCjnU2D,KAAK,GmCinUzD,OnCjnUoE,KAAX,IAAf,C;;MmCmnUrD,OAAO,G;
K;IAGX,2B;MAQoB,Q;MADhB,UAAiB,2B;MACjB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,Mn
B5nUmD,UmB4nUnD,GnB5nU8D,KAAK,KmB4nU5D,OnB5nUuE,KAAX,CAAhB,C;;MmB8nUvD,OAAO,G;K;
IAGX,2B;MAQoB,Q;MADhB,UAAgB,W;MAChB,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QACI,MnC7
oUiD,SmC6oUjD,GnC7oU2D,KAAK,GAAW,CD2O5C,SoCk6TxB,OpCl6TkC,KAAL,GAAiB,GAAtB,CC3O4C,
MAAX,IAAf,C;;MmC+oUrD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAgB,W;MAChB,wBAAgB,SAAhB,
gB;QAAgB,cAAA,SAAhB,M;QACI,MnC3pUiD,SmC2pUjD,GnC3pU2D,KAAK,GAAW,CC4O5C,SkC+6TxB,Ol
C/6TkC,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;;MmC6pUrD,OAAO,G;K;+EAGX,yB;MAAA,0C;MnC
x2TA,6B;MmCw2TA,4B;QAOI,OnCr2TmC,cmCq2TpB,IAAR,iBAAQ,CnCr2ToB,C;O;KmC81TvC,C;+EAUA,y
B;MAAA,0C;MnBn2TA,+B;MmBm2TA,4B;QAOI,OnBh2TsC,emBg2TvB,IAAR,iBAAQ,CnBh2TuB,C;O;KmBy
1T1C,C;+EAUA,yB;MAAA,sC;MnC53TA,6B;MmC43TA,iBAOiB,yB;QpCz9Tb,6B;eoCy9Ta,c;UAAE,OpCh9To
B,coCg9TpB,EpCh9T8B,KAAL,GAAiB,GAAtB,C;S;OoCg9TtB,C;MAPjB,4B;QA7iBoB,Q;QADhB,UnCp0SmC,
cmCo0SnB,CnCp0SmB,C;QmCq0SnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MnCxoTiD,cmCwoTjD,
GnCxoT2D,KAAK,GAAW,CD2O5C,coC65Sf,OpC75SyB,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;;Qm
C2rUrD,OAjjBO,G;O;KA0iBX,C;+EAUA,yB;MAAA,sC;MnCt4TA,6B;MmCs4TA,iBAOiB,yB;QlCl+Tb,6B;ekCk
+Ta,c;UAAE,OlCz+ToB,ckCy9TpB,ElCz9T8B,KAAL,GAAiB,KAAtB,C;S;OkCy9TtB,C;MAPjB,4B;QApjBoB,Q;
QADhB,UnCu1SmC,cmCu1SnB,CnCu1SmB,C;QmCw1SnB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,Mn
C3pTiD,cmC2pTjD,GnC3pT2D,KAAK,GAAW,CC4O5C,ckC+6Sf,OlC/6SyB,KAAL,GAAiB,KAAtB,CD5O4C,
MAAX,IAAf,C;;QmCqsUrD,OAxiBO,G;O;KAiiBX,C;IC3vUA,mC;MAQoB,UACL,M;MAHX,aAAa,gBAAW,cA
AX,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,oBAAO,cAAP,EAAO,sBAAP,
WAAkB,OAAlB,C;;MACJ,OAAO,M;K;IAGX,kC;MAQoB,UACL,M;MAHX,aAAa,eAAU,cAAV,C;MACb,YAA
Y,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,oBAAO,cAAP,EAAO,sBAAP,WAAkB,OAAlB,C;
;MACJ,OAAO,M;K;IAGX,mC;MAQoB,UACL,M;MAHX,aAAa,gBAAW,cAAX,C;MACb,YAAY,C;MACI,2B;MA
AhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,oBAAO,cAAP,EAAO,sBAAP,WAAkB,OAAlB,C;;MACJ,OAAO,M;K;
IAGX,oC;MAQoB,UACL,M;MAHX,aAAa,iBAAY,cAAZ,C;MACb,YAAY,C;MACI,2B;MAAhB,OAAgB,cAAhB,C;
UAAgB,yB;UACZ,oBAAO,cAAP,EAAO,sBAAP,WAAkB,OAAlB,C;;MACJ,OAAO,M;K;IAGX,2B;MAQoB,Q;
MADhB,UAAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MpCAiD,SoCAjD,GpCA2D,KAAK,
GoCAzD,OpCAoE,KAAX,IAAf,C;;MoCErD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAiB,2B;MACD,2B;
MACD,2B;MAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MpCXmD,UoCWnD,GpCXnD,KAAK,KoCW5D,OpB
XuE,KAAX,CAAhB,C;;MoBarD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,OAA
gB,cAAhB,C;UAAgB,yB;UACZ,MpBAiD,SoBAjD,GpBA2D,KAAK,GAAW,CD2O5C,SqB/MxB,OrC+MkC,
,KAAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;;MoB8BrD,OAAO,G;K;IAGX,2B;MAQoB,Q;MADhB,UAAgB
,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;UAAgB,yB;UACZ,MpBAiD,SoBAjD,GpBA2D,KAAK,GAAW,CC
4O5C,SmClMxB,OnCkMkC,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;;MoB4CrD,OAAO,G;K;IC3GX,w

B;MAMI,OrCuCkE,YqCvCvD,CrCuCwE,KAAjB,EqCvClD,CrCuC+E,KAA7B,CqCvCvD,KAAJ,GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,OrBsCmE,aqBtCxD,CrBsC0E,KAAlB,EqBtCnD,CrBsCiF,KAA9B,CqBtCxD,KAAJ,GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,OtCKgF,0BsCLrE,CtCgP2B,KAAL,GAAiB,GA3O8B,EsCLhE,CtCgPsB,KAAL,GAAiB,GA3O8B,CsCLrE,KAAJ,GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,OpCIiF,0BoCJtE,CpCwO2B,KAAL,GAAiB,KApO+B,EoCJjE,CpCwOsB,KAAL,GAAiB,KApO+B,CoCJtE,KAAJ,GAAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;IAUA,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,wB;MAMI,OrCjFkE,YqCiFvD,CrCjFwE,KAAjB,EqCiFlD,CrCjF+E,KAA7B,CqCiFvD,KAAJ,GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,OrBlFmE,aqBkFxD,CrBlF0E,KAAlB,EqBkFnD,CrBlFiF,KAA9B,CqBkFxD,KAAJ,GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,OtCnHgF,0BsCmHrE,CtCwH2B,KAAL,GAAiB,GA3O8B,EsCmHhE,CtCwHsB,KAAL,GAAiB,GA3O8B,CsCmHrE,KAAJ,GAAY,CAAZ,GAAmB,C;K;IAG9B,wB;MAMI,OpCpHiF,0BoCoHtE,CpCwH2B,KAAL,GAAiB,KApO+B,EoCoHjE,CpCwHsB,KAAL,GAAiB,KApO+B,CoCoHtE,KAAJ,GAAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;mFAUA,yB;MAAA,8C;MAAA,0B;QAOI,OAAO,MAAM,CAAN,EAAS,MAAM,CAAN,EAAS,CAAT,CAAT,C;O;KAPX,C;IAUA,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAOc,Q;MADV,UAAU,C;MACA,uB;MAAV,OAAU,cAAV,C;QAAU,mB;QAAO,MAAM,SAAM,GAAN,EAAAW,CAAX,C;;MACvB,OAAO,G;K;gFC7OX,yB;MAAA,mC;MAAA,2C;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;gFAYA,yB;MAAA,mC;MAAA,2C;MAAA,4B;QASI,OAAO,kBAAO,cAAP,C;O;KATX,C;IAYA,sC;;QASQ,OAAc,WAAP,MAAO,EAAS,SAAT,C;;QAChB,+C;UACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;IAOJ,sC;;QASQ,OAAc,YAAP,MAAO,EAAU,SAAV,C;;QAChB,+C;UACE,MAAM,2BAAuB,CAAE,QAAzB,C;;UAHV,O;;K;4FAOJ,yB;MAAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;4FAUA,yB;MAAA,mC;MAAA,uD;MAAA,4B;QAOI,OAAO,wBAAa,cAAb,C;O;KAPX,C;IAUA,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,WAAP,MAAO,EAAS,SAAT,C;;K;IAGlB,4C;MAMI,IAAI,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,YAAP,MAAO,EAAU,SAAV,C;;K;oFAGlB,8B;MASI,OAAO,WAAW,IAAX,IAAmB,2BAAS,OAAAT,C;O;K;IAGlB,4C;MAMI,IAAAA,mBAAJ,C;QACI,OAAO,I;MACX,OAAc,WAAP,MAAO,EAAS,SAAT,C;K;IAGlB,u;C;MAMI,OAAO,2BvC4K4B,SuC5KnB,KvC4K6B,KAAL,GAAiB,GAAtB,CuC5K5B,C;K;IAGX,uC;MAMI,OAAO,2BvC6K8B,SuC7KhC,KvC6K2B,oBuC7K7B,KvC6K2B,KAAK,CAAL,UAAN,CuC7K5B,C;K;IAGX,uC;MAMI,OAAO,2BtCwL8B,SsCxLhC,KtCwL2B,iBsCxL5B,KtCwL9B,C;K;IAGX,uC;MAMY,Q;MAAD,cAAC,OtBqF4B,UsBrFfB,KtBqFgC,KsBrFjD,ytBqFkB,EsBrFfB,KtBqFgC,KsBrFlD,CAAN,CsBrF6B,CsBrFnB,KAAK,CAAL,UsBrFW,KtBqFgC,KsBrFlD,CAAN,C;MAAD,wBAAE,8BAAF,C;;QAAA,WsBrFyB,SAAN,C;MsBsFvB,OAAO,G;K;IAGX,uC;MAMI,OAAO,2BtB8E4B,UsB9EfB,KtB8EgC,KsB9EjD,ytB8EkB,EsB9EfB,KtB8EgC,KsB9ElD,CAAN,CsB8E6B,CsB9EnB,KAAK,CAAL,UsB9EW,KtB8EgC,KsB9ElD,CAAN,C;K;IAGX,uC;MAMI,OAAc,WAAP,MAAO,EAAS,SAAT,C;;QvBuCtB,SuBvCK,KvBuC2B,KuBvC3B,KvBuCC,KAAK,CAAL,UuBvCF,KvBuC2B,KuBvC3B,IvBuCiB,KAAL,GAAiB,GAAtB;uBuBvCJ,KvBuCI,SuBvCJ,KvBuCI,MAAM,CAAN,iBuBvCJ,KvBuCI,KAAK,CAAL,UAAN,C;QuBvCJ,SvBuCJ,KuBvCI,KvBuCJ,OuBvCF,KvBuCE,KAAK,CAAL,UAAN,C;MuBtCjB,OAAO,2BAAO,CAAP,C;K;IAGX,kC;MAMI,OAAO,iBAAM,CAAN,EAAS,CAAT,C;K;IAGX,sC;MASQ,yBAAY,aAAC,OAAAT,C;;QADjB,SuBrBK,KvBqBL,SuBrBK,KvBqBL,OAAM,CAAN,SAAN,C;QuBrBJ,SvBqBI,KuBrBJ,KvBqBI,SuBrBJ,KvBqBI,MAAM,CAAN,SAAN,C;;QAHJ,O;;K;IAOJ,6C;MAMI,OAAc,uCAAP,MAAO,EAAS,SAAT,C;K;IAGlB,u;C;MAMI,OAAc,uCAAP,MAAO,EAAS,SAAT,C;K;IAGlB,uC;MASY,yBAAY,aAAC,OAAAT,C;;QAEL,yBvBAsB,SuBAhC,KvBA2B,KAAL,GAAiB,GAAtB;QuBCZ,yBvBDsB,SuBChC,KvBD2B,KAAL,GAAiB,GAAtB;QuBEZ,yBvBFsB,SuBEhC,KvBF2B,KAAL,GAAiB,GAAtB;QuBGZ,SAAAA,hB;QACA,yBvBJsB,SuBIhC,KvBJ2B,KAAL,GAAiB,GAAtB;QuBKZ,EvBLsB,SuBKtB,KvBL2B,KAAL,GAAiB,GAAtB;;QAPhB,O;;K;IAWJ,kC;MAMI,OAAc,uCAAP,MAAO,EAAS,SAAT,C;K;IAGlB,sC;MASY,yBAAY,aAAC,OAAAT,C;;QAEL,yBAAY,SAAhB,C;;QAHJ,O;;K;;

O,wCAAiB,yBAAgB,SAAhB,EAAsB,EAAtB,M;K;IAG5B,kC;MASI,OAAO,uCAAgB,yBrCgFY,SqChFI,SrCgF
M,KAAL,GAAiB,KAAtB,CqChFZ,ErCgFY,SqChFmB,ErCgFT,KAAL,GAAiB,KAAtB,CqChFZ,EAA4C,EAA5C,
C;K;IAG3B,gC;MAMI,OAAO,uCAAgB,yBAAgB,cAAhB,EAAsB,eAAtB,EAA6B,CAAC,cAAD,IAA7B,C;K;IA
G3B,gC;MAMI,OAAO,wCAAiB,yBAAgB,cAAhB,EAAsB,eAAtB,EAA8B,cAAD,aAA7B,C;K;IAG5B,iC;MAMI,
oBAAoB,OAAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,uCAAgB,yBAAgB,eAAhB,EAAuB,cAAvB,EAAiC,S
AAK,KAAL,GAAY,CAAhB,GAAmB,IAAnB,GAA6B,CAAC,IAAD,IAA1D,C;K;IAG3B,iC;MAMI,oBAAoB,kB
AAO,CAA3B,EAA8B,IAA9B,C;MACA,OAAO,wCAAiB,yBAAgB,eAAhB,EAAuB,cAAvB,EAAiC,SAAK,KAA
L,cAAY,CAAhB,GAAmB,IAAnB,GAA8B,IAAD,aAA1D,C;K;IAG5B,iC;MAQI,IvC/OgF,0BuC+O5E,EvCJkC,K
AAL,GAAiB,GA3O8B,EuC+OtE,6BAAM,UvCJsB,KAAL,GAAiB,GA3O8B,CuC+O5E,KAAJ,C;QAA2B,OAAO,
iCAAU,M;MAChC,WvC6BuB,SuC7B5B,SvC6BsC,KAAL,GAAiB,GAAtB,C;MuC7BV,YAAK,W;MAA9B,OtCj
D6D,oBAhJP,SAAU,CD8N7B,SuC7BV,EvC6BoB,KAAL,GAAiB,GAAtB,CC9N6B,MAAK,GDAK,KCAO,KAA
Z,IAAf,CAgJO,C;K;IsCoDjE,iC;MAQI,ItC3OkE,YsC2O9D,EtC3O+E,KAAjB,EsC2OxD,4BAAK,UtC3OgF,KAA
7B,CsC2O9D,KAAJ,C;QAA0B,OAAO,iCAAU,M;MAC3C,OtC7D6D,csC6DtD,StC7DsD,EAhJP,SsC6MtC,EtC7
MgD,KAAK,GAAY,CsC6M5D,WtC7M4D,MAAZ,IAAf,CAgJO,C;K;IsCgEjE,iC;MAQI,ItB/OmE,asB+O/D,EtB/
OiF,KAAlB,EsB+OzD,6BAAM,UtB/OiF,KAA9B,CsB+O/D,KAAJ,C;QAA2B,OAAO,kCAAW,M;MAC7C,OtBzE
+D,iBsByExD,StBzEwD,EA7IP,UsBsNxC,EtBtNmD,KAAK,UAAY,ChByP/C,UAAW,oBAAL,CsCnCtB,WtCmC
sB,MAAK,CAAL,iBAAN,CgBzP+C,MAAZ,CAAhB,CA6IO,C;K;IsB4EnE,iC;MAQI,IrC3QiF,0BqC2Q7E,ErCvC
kC,KAAL,GAAiB,KApO+B,EqC2QvE,8BAAO,UrCvCqB,KAAL,GAAiB,KApO+B,CqC2Q7E,KAAJ,C;QAA4B,
OAAO,iCAAU,M;MACjC,WrCNuB,SqCM5B,SrCNsC,KAAL,GAAiB,KAAtB,C;MqCMV,YAAK,W;MAA9B,Ot
CrF6D,oBAhJP,SAAU,CC+N7B,SqCMV,ErCNoB,KAAL,GAAiB,KAAtB,CD/N6B,MAAK,GCAK,KDAO,KAA
Z,IAAf,CAgJO,C;K;IsCwFjE,kD;MAUI,OtCjRkE,YsCiRvD,StCjRwE,KAAjB,EsCiRhD,YtCjR6E,KAA7B,CsCiR
vD,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAUI,OtBtRmE,asBsRxD,StBtR0E,KAAlB,EsBsRjD,YtBtR+
E,KAA9B,CsBsRxD,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,kD;MAUI,OvC3TgF,0BuC2TrE,SvChF2B,KAA
L,GAAiB,GA3O9B,EuC2T9D,YvChFoB,KAAL,GAAiB,GA3O9B,CuC2TrE,IAAJ,GAAyB,YAAzB,GAA2C,S;K;
IAGtD,kD;MAUI,OrChUiF,0BqCgUtE,SrC5F2B,KAAL,GAAiB,KApO/B,EqCgU9D,YrC5FoB,KAAL,GAAiB,K
ApO+B,CqCgUtE,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAUI,OtCrUkE,YsCqUvD,StCrUwE,KAAjB,E
sCqUhD,YtCrU6E,KAA7B,CsCqUvD,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAUI,OtB1UmE,asB0UxD,
StB1U0E,KAAlB,EsB0UjD,YtB1U+E,KAA9B,CsB0UxD,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAUI,O
vC/WgF,0BuC+WrE,SvCpI2B,KAAL,GAAiB,GA3O9B,EuC+W9D,YvCpIoB,KAAL,GAAiB,GA3O9B,CuC+Wr
E,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,iD;MAUI,OrCpXiF,0BqCpXtE,SrChJ2B,KAAL,GAAiB,KApO+B,E
qCoX/D,YrChJoB,KAAL,GAAiB,KApO+B,CqCoXtE,IAAJ,GAAyB,YAAzB,GAA2C,S;K;IAGtD,4D;MAUI,ItCz
XkE,YsCyX9D,YtCzX+E,KAAjB,EsCyX/C,YtCzX4E,KAA7B,CsCyX9D,IAAJ,C;QAAiC,MAAM,gCAAyB,oDA
AiD,YAAjD,8BAAoF,YAApF,MAAzB,C;MACvC,ItC1XkE,YsC0X9D,StC1X+E,KAAjB,EsC0XvD,YtC1XoF,K
AA7B,CsC0X9D,IAAJ,C;QAAyB,OAAO,Y;MAChC,ItC3XkE,YsC2X9D,StC2X+E,KAAjB,EsC2XvD,YtC2XoF,
KAA7B,CsC2X9D,IAAJ,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,4D;MAUI,ItBjYmE,asBiY/D,YtBjYiF,
KAAlB,EsBiYhD,YtBjY8E,KAA9B,CsBiY/D,IAAJ,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAA
pF,MAAzB,C;MACvC,ItBlYmE,asBkY/D,StBlYiF,KAAlB,EsBkYjD,YtBlY8E,KAA9B,CsBkY/D,IAAJ,C;QAAy
B,OAAO,Y;MAChC,ItBnYmE,asBnY/D,StBnYiF,KAAlB,EsBnYjD,YtBnY8E,KAA9B,CsBnY/D,IAAJ,C;QAA
yB,OAAO,Y;MAChC,OAAO,S;K;IAGX,4D;MAUI,IvCzagF,0BuCya5E,YvC9LkC,KAAL,GAAiB,GA3O8B,EuC
ya7D,YvC9LmB,KAAL,GAAiB,GA3O8B,CuCya5E,IAAJ,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAo
F,YAApF,MAAzB,C;MACvC,IvC1agF,0BuC1agF,0BuC1a5E,SvC/LkC,KAAL,GAAiB,GA3O8B,EuC0a7D,YvC
/LmB,KAAL,GAAiB,GA3O8B,CuC0a5E,IAAJ,C;QAAyB,OAAO,Y;MAChC,IvC3agF,0BuC3a5E,SvChMkC,KA
AL,GAAiB,GA3O8B,EuC3a7D,YvChMmB,KAAL,GAAiB,GA3O8B,CuC3a5E,IAAJ,C;QAAyB,OAAO,Y;MACh
C,OAAO,S;K;IAGX,4D;MAUI,IrCjbiF,0BqCjb7E,YrC7MkC,KAAL,GAAiB,KApO+B,EqCjb9D,YrC7MmB,KAAL
,GAAiB,KApO+B,CqCjb7E,IAAJ,C;QAAiC,MAAM,gCAAyB,oDAAiD,YAAjD,8BAAoF,YAApF,MAAzB,C;
MACvC,IrClbiF,0BqClb7E,SrC9MkC,KAAL,GAAiB,KApO+B,EqClb9D,YrC9MmB,KAAL,GAAiB,KApO+B,Cq
Clb7E,IAAJ,C;QAAyB,OAAO,Y;MAChC,IrCnbiF,0BqCnb7E,SrC/MkC,KAAL,GAAiB,KApO+B,EqCnb9D,YrC/
MmB,KAAL,GAAiB,KApO+B,CqCnb7E,IAAJ,C;QAAyB,OAAO,Y;MAChC,OAAO,S;K;IAGX,uC;MAcW,Q;M
AJP,IAAI,8CA

AJ,C;QACI,OAAY,WAAL,SAAK,EAAe,KAAf,C;;MAEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,4C
AAyC,KAAzC,MAAzB,C;MAEvB,ItC9b8D,YsC8b9D,StC9b+E,KAAjB,EsC8bvD,KAAM,MtC9b8E,KAA7B,Cs
C8b9D,K;QAA4B,OAAN,KAAM,M;;QAC5B,ItC/b8D,YsC+b9D,StC/b+E,KAAjB,EsC+bvD,KAAM,atC/b8E,KA
A7B,CsC+b9D,K;UAAmC,OAAN,KAAM,a;;UAC3B,gB;;MAHZ,W;K;IAOJ,uC;MAcW,Q;MAJP,IAAI,8CAAJ,C
;QACI,OAAY,WAAL,SAAK,EAAgB,KAAhB,C;;MAEhB,IAAI,KAAM,UAAV,C;QAAqB,MAAM,gCAAyB,4C
AAyC,KAAzC,MAAzB,C;MAEvB,ItB3c+D,asB2c/D,StB3ciF,KAAlB,EsB2cxD,KAAM,MtB3cgF,KAA9B,CsB2c
/D,K;QAA4B,OAAN,KAAM,M;;QAC5B,ItB5c+D,asB4c/D,StB5ciF,KAAlB,EsB4cxD,KAAM,atB5cgF,KAA9B,
CsB4c/D,K;UAAmC,OAAN,KAAM,a;;UAC3B,gB;;MAHZ,W;K;IC/fJ,2B;MAUoB,Q;MADhB,UAAgB,W;MAC
A,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,MvCoDiD,SuCpDjD,GvCoD2D,KAAK,GuCpDzD,OvCoDo
E,KAAX,IAAf,C;;MuClDrD,OAAO,G;K;IAGX,2B;MAUoB,Q;MADhB,UAAiB,2B;MACD,2B;MAAhB,OAAgB,
cAAhB,C;QAAgB,yB;QACZ,MvBuCmD,UuBvCnD,GvBuC8D,KAAK,KuBvC5D,OvBuCuE,KAAX,CAAhB,C;;
MuBrCvD,OAAO,G;K;IAGX,2B;MAUoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,OAAgB,cAAhB,C;QAAgB
,yB;QACZ,MvCoBiD,SuCpBjD,GvCoB2D,KAAK,GAAW,CD2O5C,SwC/PxB,OxC+PkC,KAAL,GAAiB,GAAtB,
CC3O4C,MAAX,IAAf,C;;MuClCBrD,OAAO,G;K;IAGX,2B;MAUoB,Q;MADhB,UAAgB,W;MACA,2B;MAAhB,
OAAgB,cAAhB,C;QAAgB,yB;QACZ,MvCoIiD,SuCpIjD,GvCoI2D,KAAK,GAAW,CC4O5C,SsChPxB,OtCgPkC,KA
AL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;;MuCFrD,OAAO,G;K;;;;;ICuCP,iD;MAAA,qE;MAAgB,4B;MANp
B,uC;MAMI,Y;K;IACA,4D;MAAA,qE;MAAgC,wBAAM,OAAN,Q;MAPpC,uC;MAOI,Y;K;IACA,mE;MAAA,q
E;MAAmD,6BAAM,OAAN,EAAe,KAAf,C;MARvD,uC;MAQI,Y;K;IACA,0D;MAAA,qE;MAAiC,wBAAM,KA
AN,Q;MATrC,uC;MASI,Y;K;ICxGJ,gC;K;;;;ICuBoC,wC;8BAAsC,O;;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;yCC0RtE,6B;MA
SI,MAAM,yB;K;;;;;;;0CAyDV,sB;MASI,OAAO,I;K;;;;;;;;;;;;;;;ICnYf,wB;K;kCAEI,Y;MAA4B,sB;K;;IAMhC,
wB;K;kCAEI,Y;MAA4B,mC;K;;IAMhC,yB;K;mCAEI,Y;MAA4B,uB;K;;IAMhC,uB;K;iCAEI,Y;MAA4B,qB;K;;I
AMhC,wB;K;kCAEI,Y;MAA4B,sB;K;;IAMhC,yB;K;mCAEI,Y;MAA4B,uB;K;;IAMhC,0B;K;oCAEI,Y;MAA4B,
wB;K;;IAMhC,2B;K;qCAEI,Y;MAA4B,yB;K;;IICtDM,oD;MAA2C,uB;MAAjB,gB;MAC5D,sBAAgC,InBkCU,I;
MmBjC1C,iBAAmC,YAAO,CAAX,GAAc,SAAS,IAAvB,GAAiC,SAAS,I;MACzE,cAA4B,cAA5B,GAAqC,KnB
gCK,ImBhC1C,GAAqD,mB;K;gDAErD,Y;MAAkC,qB;K;iDAElC,Y;MACI,YAAY,W;MACZ,IAAI,UAAS,mBA
Ab,C;QACI,IAAI,CAAC,cAAL,C;QAAwB,MAAa,6B;QAC3B,iBAAU,K;;QAGV,4BAAAQ,SAAR,I;;MAEJ,OAAa,O
AAN,KAAM,C;K;;IAQgB,mD;MAAyC,sB;MAAjB,gB;MACzD,sBAAgC,I;MAChC,iBAAmC,YAAO,CAAX,GA
Ac,SAAS,IAAvB,GAAiC,SAAS,I;MACzE,cAA4B,cAA4J,GAAqC,KnB
+BK,ImB/B1C,GAAqD,mB;K;+CAErD,Y;MAAkC,qB;K;gDAElC,Y;MACI,YAAY,W;MACZ,IAAI,UAAS,cAAS,mBA
AT,CAAJ,C;QACI,IAAI,CAAC,cAAL,C;QAAwB,MAAa,6B;QAC3B,IC9DX,oD;MA6CA,uC;MAtCI,IAAI,SAAQ,CAAZ,C;QAAe,MAAa,gCAAyB,wBAAAzB,C;MAC5B,IAAI,SAAQ,WAAZ,C;QAA2B,MAAa,gCAAyB,wEAAzB,C;MAG5C,aAAGyB,K;MAEzB,YAAGuF,OAA/D,0BAA0B,KpBcR,IoBBdlB,EAAsC,YpBcpB,IoBBdlB,EAAyD,IAAzD,CAA+D,C;MAEvF,YAAGuB,I;K;yCAEvB,Y;MAAwC,mCAAwB,UAAxB,EAA+B,SAA/B,EAA0C,K;K;wCAE1C,Y;MAAwC,6BAAwB,UAAxB,EAA+B,SAA/B,EAA0C,aAAQ,SAAtB,GAAgC,aAAQ,S;K;uCAE7E,iB;MACI,iDAA6B,kBAAa,KAAM,UAAnB,EAAAS,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KAAtC,GAAsD,KAAD/B,CAA7B,C;K;yCAGJ,Y;MACI,OAAAI,cAAJ,cAAAJ,GAAAe,EAAAf,GAAAwB,OAAAM,OAAAK,UpBRG,IoBBQR,UAAAkB,SpBRV,IoBBQR,KAAN,SAAAqC,SAArC,I;K;yCAE5B,Y;
MAAAkC,OAAAI,YAAAO,CAAAX,GAAAc,oBAAE,UAAF,+BAAAU,SAAV,eAAqB,SAArB,GAAgC,aAAQ,S;K;;IICtDM,oD;MAA2C,uB;MAAjB,gB;MAC5D,sBAAgC,I;MAChC,iBAAmC,cAA5B,GAAqC,K;K;IAEhF,qC;MAAA,yC;K;kEACI,sC;MAQ2F,2BAAgB,UAAh
B,EAAAh;K;;IAIBA,EAA4B,QAA5B,EAAsC,IAAtC,C;K;;;IAT/F,iD;MAAA,gD;QAAA,+B;;MAAA,yC;K;;ICJ9B,MAAA6B,C;K;IIAiBA,gD;MAAwB,wBAAAzB,EAAAxC,GAAA+B,OAAAM,OAAAK,UpBLG,IoBBRR,wBAAAkB,SpBLV,IoBBRR,KAAN,SAAAqC,SAArC,I;K;;;ICXM,oD;MAAyC,uB;MAAjB,gB;MAC5D,sBAAgC,I;MAChC,iBAAmC,cAA5B,GAAqC,K;K;IAEhF,qC;MAAA,yC;K;IAEjB,+C;MAAA,gC;;K;;IAIBA,EAAAxC,GAAAxC6B,C;K;IINiB,gD;MAAwB,wB;K;;;;;IAAAxC,EAAAz;

B,C;K;wCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAAM,MAAK,UAAL,QAAa,SAAb,IAAN,SAA2B,S
AA3B,I;K;wCAE5B,Y;MAAkC,OAAI,YAAO,CAAX,GAAgB,UAAF,qBAAU,SAAV,cAAqB,SAAnC,GAAgD,U
AAF,2BAAgB,SAAhB,eAA4B,CAAC,SAAD,IAA5B,C;K;IAEhF,oC;MAAA,wC;K;iEACI,sC;MAQwF,0BAAe,U
AAf,EAA2B,QAA3B,EAAqC,IAArC,C;K;;;IAT5F,gD;MAAA,+C;QAAA,8B;;MAAA,wC;K;;IAiBA,oD;MA6CA,
uC;MAtCI,IAAI,gBAAJ,C;QAAgB,MAAa,gCAAyB,wBAAzB,C;MAC7B,IAAI,sCAAJ,C;QAA4B,MAAa,gCAAy
B,yEAAzB,C;MAG7C,aAGyB,K;MAEzB,YAGwB,4BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAExB,
YAGwB,I;K;yCAExB,Y;MAAwC,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAExC,Y;MAMqC
,OAAI,uBAAO,CAAX,GAAc,2BAAQ,SAAR,KAAd,GAAgC,2BAAQ,SAAR,K;K;uCAErE,iB;MACI,iDAA6B,k
BAAa,KAAM,UAAnB,KAC7B,mBAAS,KAAM,MAAf,KAAwb,kBAAQ,KAAM,KAAd,CAAxB,IAA8C,kBAA
Q,KAAM,KAAd,CADjB,CAA7B,C;K;yCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,iCAAM,iCAAM,eAA
W,8BAAW,EAAX,CAAX,CAAN,MAAoC,cAAU,6BAAU,EAAV,CAAV,CAApC,CAAN,MAAuE,cAAU,6BAA
U,EAAV,CAAV,CAAvE,CAAiG,Q;K;yCAE7H,Y;MAAkC,OAAI,uBAAO,CAAX,GAAgB,UAAF,qBAAU,SAA
V,yBAAqB,SAArB,WAAd,GAAgD,UAAF,2BAAgB,SAAhB,yBAA6B,SAAD,aAA5B,W;K;IAEhF,qC;MAAA,y
C;K;kEACI,sC;MAQ4F,2BAAgB,UAAhB,EAA4B,QAA5B,EAAsC,IAAtC,C;K;;;IAThG,iD;MAAA,gD;QAAA,+
B;;MAAA,yC;K;;;;6CClKA,iB;MAGkD,+BAAS,UAAT,UAAkB,wBAAS,iBAAT,M;K;oCAEpE,Y;MAKgC,oCA
AQ,iBAAR,K;K;;I7CpBd,wC;MAsBlB,iC;MAtBsD,2BAAgB,KAAhB,EAAuB,YAAvB,EAAqC,CAArC,C;K;kFA
C7B,Y;MAAQ,8B;K;yFACD,Y;MAAQ,6B;K;2CAExC,iB;MAA8C,qBAAS,KAAT,IAAkB,SAAS,S;K;kCAEzE,Y
;MAKkC,oBAAQ,S;K;iCAE1C,iB;MACI,2CAAuB,kBAAa,KAAM,UAAnB,KACvB,eAAS,KAAM,MAAf,IAAw
B,cAAQ,KAAM,KADf,CAAvB,C;K;mCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAAK,UwBkBS,IxBl
Bd,UAAkB,SwBkBJ,IxBlBBd,K;K;mCAE5B,Y;MAAkC,2BAAE,UAAF,+BAAU,SAAV,C;K;IAElC,+B;MAAA,m
C;MACI,aAC8B,cAAY,OAAF,CAAE,CAAZ,EAAwB,OAAF,CAAE,CAAxB,C;K;;;IAFlC,2C;MAAA,0C;QAAA,
yB;;MAAA,mC;K;;;IASiB,uC;MAsBjB,gC;MAtBmD,0BAAe,KAAf,EAAsB,YAAtB,EAAoC,CAApC,C;K;iFAC3
B,Y;MAAQ,iB;K;wFACD,Y;MAAQ,gB;K;0CAEvC,iB;MAA6C,qBAAS,KAAT,IAAkB,SAAS,S;K;iCAExE,Y;M
AKkC,oBAAQ,S;K;gCAE1C,iB;MACI,0CAAsB,kBAAa,KAAM,UAAnB,KACtB,eAAS,KAAM,MAAf,IAAwB,c
AAQ,KAAM,KADhB,CAAtB,C;K;kCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,MAAK,UAAL,QAAa,SA
Ab,I;K;kCAE5B,Y;MAAkC,OAAAE,UAAF,qBAAU,S;K;IAE5C,8B;MAAA,kC;MACI,aAC6B,aAAS,CAAT,EAA
Y,CAAZ,C;K;;;IAFjC,0C;MAAA,yC;QAAA,wB;;MAAA,kC;K;;IASkB,wC;MAsBlB,iC;MAtBoD,2BAAgB,KAA
hB,EAAuB,YAAvB,EAAqC,CAArC,C;K;kFAC7B,Y;MAAQ,iB;K;yFACD,Y;MAAQ,gB;K;2CAExC,iB;MAA8C,k
CAAS,KAAT,IAAkB,SAAT,,S;K;kCAEhE,Y;MAKkC,kCAAQ,SAAR,K;K;iCAElC,iB;MACI,2CAAuB,kBAAa,KAA
M,UAAnB,KACvB,eAAS,KAAM,MAAf,IAAwB,cAAQ,KAAM,KADD,CAAvB,C;K;mCAGJ,Y;MACI,OAAI,cAA
J,GAAe,EAAf,GAAwB,iCAAM,eAAW,8BAAW,EAAX,CAAX,CAAN,MAAoC,cAAU,6BAAU,EAAV,CAAV,C
AApC,CAA8D,Q;K;mCAE1F,Y;MAAkC,OAAAE,UAAE,+B;K;;;IAFjC,2C;MAAA,0C;QAAA,yB;;MAAA,mC;K;;
;I8C9EJ,gB;MAAA,oB;K;8BAII,Y;MAAA0B,oB;K;;;IAJ9B,4B;MAAA,2B;QAAA,U;;MAAA,oB;K;ICEA,yC;MAA
A,e;MAAA,iB;MAAA,uB;K;IAAA,uC;MAAA,0C;O;MAII,kE;MAEA,wF;MAEA,oF;MAEA,wE;MAEA,kE;MAE
A,oF;MAEA,sF;MAEA,8E;MAEA,wE;MAEA,sF;MAEA,uF;MAEA,iE;MAEA,6E;MAEA,iE;MAEA,2E;K;;IA5BA,8
C;MAAA,6B;MAAA,sC;K;;IAEA,yD;MAAA,6B;MAAA,iD;K;;IAEA,uD;MAAA,6B;MAAA,+C;K;;IAEA,iD;MA
AA,6B;MAAA,sC;K;;IAEA,uD;MAAA,6B;MAAA,+C;K;;IAEA,wD;MAAA,6B;MAAA,gD;K;;IAEA,oD;MAA
A,6B;MAAA,4C;K;;IAEA,iD;MAAA,6B;MAAA,yC;K;;IAEA,wD;MAAA,6B;MAAA,gD;K;;IAEA,wD;MAAA,6
B;MAAA,gD;K;;IAEA,6C;MAAA,6B;MAAA,qC;K;;IAEA,2C;MAAA,6B;MAAA,6B;;MAAA,qC;K;;IAhCJ,mC;
MAAA,+oB;K;;IAAA,wC;MAAA,a;aAAA,O;UAAA,2C;aAAA,kB;UAAA,sD;aAAA,gB;UAAA,oD;aAAA,U;UA
AA,8C;aAAA,O;UAAA,2C;aAAA,gB;UAAA,oD;aAAA,iB;UAAA,qD;aAAA,a;UAAA,iD;aAAA,U;UAAA,8C;aA
AA,iB;UAAA,qD;aAAA,iB;UAAA,qD;aAAA,M;UAAA,0C;aAAA,Y;UAAA,gD;aAAA,M;UAAA,0C;aAAA,W;U
AAA,+C;;UAAA,uE;;K;IAqCA,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;O;MAMI,kE;MAEA,u
B;K;IAAA,0C;MAAA,6C;O;MAII,0C;K;;IAJA,kD;MAAA,6B;MAAA,0C;K;;IAAA,2C;MAAA,a;aAAA,O;UAAA,2
C;aAAA,sI;UAAA,2C;;UAAA,2C;;K;;IAVJ,2C;MAAA,si;K;;IAAA,a;aAAA,Q;UAAA,+C;aAAA,Q;UAAA,+C;aA
AA,S;UAAA,gD;;UAAA,0E;;K;IAwB8B,8B;MAAC,oC;K;;IAQE,0B;MAAC,qB;QAAA,iD;MAAA,kB;K;;IAElC,sB
;K;IAMA,4B;K;IC/EA,yB;K;IC/EA,6B;K;

MAEI,UAAU,IAAI,C;MACd,OAAW,OAAO,CAAX,GAAc,GAAd,GAAuB,MAAM,CAAN,I;K;IAGlC,qB;MACI,UAAU,SAAI,CAAJ,C;MACV,OAAW,kBAAO,CAAX,GAAc,GAAd,GAAuB,QAAM,CAAN,C;K;IAGlC,mC;MAEI,OAAO,IAAI,IAAI,CAAJ,EAAO,CAAP,IAAY,IAAI,CAAJ,EAAO,CAAP,CAAZ,IAAJ,EAA2B,CAA3B,C;K;IAGX,qC;MACI,OAAO,MAAI,MAAI,CAAJ,EAAO,CAAP,WAAY,MAAI,CAAJ,EAAO,CAAP,CAAZ,CAAJ,EAA2B,CAA3B,C;K;IAGX,qD;MAkBI,WAAO,CAAP,C;QAD2E,OAC3D,SAAS,GAAb,GAAkB,GAAlB,GAA2B,MAAM,iBAAiB,GAAjB,EAAsB,KAAtB,EAAA6B,IAA7B,CAAN,I;WACvC,WAAO,CAAP,C;QAF2E,OAE3D,SAAS,GAAb,GAAkB,GAAlB,GAA2B,MAAM,iBAAiB,KAAjB,EAAwB,GAAxB,EAAA6B,CAAC,IAAD,IAA7B,CAAN,I;;QAC/B,MAAa,gCAAyB,eAAAzB,C;K;IAGzB,uD;MAkBI,sBAAO,CAAP,C;QAD+E,OAC/D,sBAAS,GAAT,MAAAj,GAAkB,GAAlB,GAA2B,MAAM,iBAAiB,GAAjB,EAAsB,KAAtB,EAAA6B,IAA7B,CAAN,I;WACvC,WAAO,CAAP,C;QAF+E,OAE/D,sBAAS,GAAT,MAAAj,GAAkB,GAAlB,GAA2B,MAAM,iBAAiB,KAAjB,EAAwB,GAAxB,EAAA6B,CAAC,IAAD,IAA7B,CAAN,I;;QAC/B,MAAa,gCAAyB,eAAAzB,C;K;IC7DjB,kD;MAAA,8B;MACI,aAAY,C;K;oDACZ,Y;MAAyB,oBAAQ,gBAAI,O;K;iDACrC,Y;MAAgD,MAA1B,IAAI,aAAQ,gBAAI,OAAhB,C;QAAA,OAAsB,iBAAI,iBAAJ,EAAAI,yBAAJ,O;;QAAkB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAPhF,oC;MAEI,IAD8D,IAC9D,S;QACI,UAA0B,K;QAAA,OAAsB,iBAAI,iBAAJ,EAAAI,c;;QAAkB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAPhF,oC;MAEI,IAD8D,IAC9D,S;eASxD,OAAStC,D;eAStC,qB;K;eAAQ,C;eACl B,W;YAVwD,OAUzC,kB;K;eAAkB,KAAlB,C;eACf,Y;YAXwD,OAWxC,m;K;eAAmB,KAAnB,C;eACh B,W;YAZwD,OAYzC,kB;K;eAAkB,KAAlB,C;eACf,U;YAbwD,OAa1C,iB;K;eAAiB,KAAjB,C;eACd,W;YAdwD,OAczC,kB;K;eAAkB,KAAlB,C;eACf,Y;YAfwD,OAexC,m;K;eAAmB,KAAnB,C;eACh B,a;YAhBwD,OAgBvC,o;K;eAAoB,KAApB,C;;;YACrB,C;;K;;;YACT,MAAM,6BAAAs,2DAAA+C,IAA/B,C;;K;IAIuC,2D;MAAA,kC;MAAS,0B;MAC9D,aAAY,C;K;2DACZ,Y;MAAyB,oBAAQ,kBAAM,O;K;+DACvC,Y;YAVwD,OAUzC,kB;K;eAAkB,KAAlB,C;eACf,Y;YAXwD,OAWxC,m;K;eAAmB,KAAnB,C;eACh B,W;YAZwD,OAYzC,kB;K;eAAkB,KAAlB,C;QAAA,OAAsB,iBAAI,iBAAJ,EAAAI,c;;QAAkB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAPhF,oC;MAEI,IAD8D,IAC9D,S;eASxD,OAAStC,D;eAStC,qB;K;eAAQ,C;eACl B,W;YAVwD,OAUzC,kB;K;eAAkB,KAAlB,C;eACf,Y;YAXwD,OAWxC,m;K;eAAmB,KAAnB,C;;;YACrB,C;;K;;;YACT,MAAM,6BAAAs,2DAAA+C,IAA/B,C;;K;IAIuC,2D;MAAA,kC;MAAS,0B;MAC9D,aAAY,C;K;2DACZ,Y;MAAyB,oBAAQ,kBAAM,O;K;+DACvC,Y;MAA9C,MAAA,IAAI,aAAQ,kBAAM,OAAlB,C;QAAA,OAAsB,iBAAI,iBAAJ,EAAAI,c;;QAAkB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAPhF,oC;MAEI,IAD8D,IAC9D,S;eASxD,OAAStC,D;eAStC,qB;K;eAAQ,C;eACl B,W;YAVwD,OAUzC,kB;K;eAAkB,KAAlB,C;eACf,Y;YAXwD,OAWxC,m;K;eAAmB,KAAnB,C;;;YACrB,C;;K;;;YACT,MAAM,6BAAAs,2DAAA+C,IAA/B,C;;K;IAIuC,2D;MAAA,kC;MAAS,0B;MAC9D,aAAY,C;K;2DACZ,Y;MAAyB,oBAAQ,kBAAM,O;K;+DACvC,Y;MAA9C,MAAA,IAAI,aAAQ,kBAAM,OAAlB,C;QAAA,OAAsB,iBAAI,iBAAJ,EAAAI,c;;QAAkB,MAAM,2BAAyB,UAAF,WAAvB,C;K;;IAPhF,oC;MAEI,IAD8D,IAC9D,S;eASxD,OAAStC,D;eAStC,qB;K;eAAQ,C;eACl B,W;YAVwD,OAUzC,kB;K;eAAkB,KAAlB,C;eACf,Y;YAXwD,OAWxC,m;K;;;YACrB,C;;K;;;YACT,MAAM,6BAAAs,2DAAA+C,IAA/B,C;;K;IAIuC,2D;MAAA,kC;MAAS,0B;MAC9D,aAAY,C;K;;;YACrB,C;;K;;;YACT,MAAM,6BAAAs,2DAAA+C,IAA/B,C;;K;IAIuC,2D;MAAA,kC;MAAU,0B;MACuD,IAOpB,gC;MAAC,wB;K;;IAEhC,+B;MAC8C,MAAAmC,mC;K;IAEpD,8C;MAEI,IAAI,qBAAAJ,C;QACI,OAAAO,C5ByIiF,W4BzBzIrE,U5ByBByIqE,E4BzBzBizD,Q5ByB9BvD,C;;Q4B1BBvD,C;;Q4BvBBvD,C;K;IAI7B,2C;MAEI,IAD8D,IAC9D,S;QACI,OAAAO,C5BoIiF,W4BpBzIrE,U5BoBByIqE,E4BpBzBvD,C;;Q4BrBBvD,C;K;IAI7B,2C;MAEI,IAD8D,IAC9D,S;eASxD,OAAStC,D;eAStC,qB;K;eAAQ,C;eACl B,W;YAVwD,OAUzC,kB;K;eAAkB,KAAlB,C;eACf,Y;YAXwD,OAWxC,m;K;eAAmB,KAAnB,C;;;YACrB,C;;K;;;YACT,MAAM,6BAAAs,2DAAA+C,IAA/B,C;;K;IAIuC,2D;MAAA,kC;MAAU,0B;MAC9D,aAAY,C;K;;;YACrB,C;;K;;;YACT,MAAM,6BAAAs,2DAAA+C,IAA/B,C;;K;IAIuC,2D;MAAA,kC;MAAU,0B;MACudyD,IS oBpgC,gC;MAAC,wB;K;;IAEhuB,+B;MAC8C,MAAAmC,iD;K;IAEpD,gD;MAEI,IAAI,qBAAAJ,C;QACI,OAAAO,CMoBpB,gC;MAAC,wB;K;IAEhC,8B;MAACM5C,OAAO,IAAI,mCAAAwB,K;QAAA,W;MACuB,MAC8C,8C;K;MAC8C,mC;K;IMAEpD,8D;MAEI,IAD8D,IAC9D,S;QACI,OAAAO,CSoBpgB,gCM5B,qBAAAJ,C;;QA9D,OAAAO,C5ByIiF,WOAEpD,8D;MAEI,IAAI,qBAAAJ,C;QACI,OAAAO,CSoBpgC,gC;MAAC,wB;K;;I MEhuB,+B;MAC8C,MAAAmC,iD;K;IAEpD,gD;MAEI,IAAI,qBAAAJ,C;MAC8C,8C;K;IAEpD,8C;MAEI,IAD8D,IAC9D,S;QACI,OAAAO,C5BoIiF,WMAEpD,+B;MAC8C,MAAAmC,iD;K;IAEpD,gD;MAEI,IAAI,qBAAAJ,C;;QA9D,OAAAO,C5ByIiF,WMAEpD,+B;MAC8C,MAAAmC,iD;K;IAEpD,gD;MAEI,IAAI,qBAAAJ,C;MACuB,iD;K;MEhuB,+B;MAC8C,MAAAmC,iD;K;IAEpD,8C;MAEI,IAD8D,IAC9D,S;QACI,OAAAO,C5BoIiF,W4BpBzIrE,U5BoBByIqE,E4BpBzBvD,C;;Q4BrBBvD,C;K;IMEpD,gD;MAEI,IAAI,qBAAAJ,C;QACI,OAAAO,CSoBpgC,gC;MAAC,wB;K;;IMEpD,+B;MAC8C,MAAAmC,iD;K;IAEpD,gD;MAEI,IAAI,qBAAAJ,C;QACI,OAAAO,CMAEhC,wB;K;IMEpD,+B;MAC8C,MAAAmC,+B;MAC8C,MAAC,wB;K;;IAEhC,+B;MAC8C,MAAAmC,iD;K;IAEpD,8C;MEI,IAD8D,gC;MAAC,8C;MAAM,mC;K;IAEpD,8D;MAAA,kC;MAAU,0B;MAC9D,aAAY,C;K;;;YACrB,C;;K;;;YACT,MAAM,6BAAAs,2DAAA+C,IAA/B,C;;K;IMEhuB,+B;MAC8C,MAAAmC,iD;K;IAEpD,gD;MAEI,IAAI,qBAAAJ,C;QACI,OAAAO,CM5B,qBAAAJ,gD;MAEI,IAAI,qBAAAJ,gC;MAAC,wB;K;;IMEhC,wB;K;IMEpD,8D;MAEI,IAD8D,gC;MAAC,8C;MAAM,mC;K;IMEpD,gD;MAEI,IAAI,qBAAAJ,gC;MAAC,wB;K;;IMEpD,+B;MAC8C,MAAAmC,iD;K;IMEpD,gD;MAEI,IAAI,qBAAAJ,gC;MAAC,8C;MAAM,mC;K;IMEpD,8D;MAAA,kC;MAAU,0B;MAC9D,aAAY,C;K;IMEpD,gD;MAEI,IAAI,qBAAAJ,gC;MAAC,8C;MAAM,mC;K;IMEpD,+B;MAC8C,MAAAmC,iD;K;;IAEpD,8C;MAAA,8B;MACuD,IAOpB,gc;MAAC,8C;MAAM,mC;K;IMEpD,8C;MEI,IAD8D,gc;MAAC,8C;MAAM,mC;K;IAEpD,8D;MAAA,kc;MAAU,0B;MAC9D,aAAY,C;K;IMEpD,gD;MAEI,IAAI,qBAAAJ,gc;MAAC,8C;MAAM,mC;K;;IAEpD,+B;MAC8C,MAAC,wB;K;;IAEhC,+B;MAC8C,MAAAmC,ic;K;;IAEpD,8C;MAAA,8b;MACuD,IAOpD,gc;MAAC,wb;K;IAEhuB,+b;MAC8C,MAAC,8c;MAAM,mc;K;IAEpD,8D;MAAA,kc;MAAU,0b;MAC9D,aAAY,c;K;IMEhC,wb;K;IAEhuB,+b;MAC8C,MAAAmC,+b;MAC8C,MAC,wb;K;IAEhC,+b;MAC8C,MAAAmC,ic;K;IAEpD,8C;MAEI,IAD8D,gc;MAAC,8c;MAAM,mc;K;;IAEpD,+b;MAC8C,MAAC,wb;K;;IAEhc,+b;MAC8C,MAAAmC,ic;K;;IAEpd,8C;MAAA,8b;MACvuD,IAOpd,gc;MAAC,wb;K;IAEhuB,+c;MAC8C,MAAC,8c;MAAM,mc;K;;IAEpD,+b;MAC8C,MAAAmC,+b;MAC8C,MAC,wb;K;;IAEhc,+b;MAC8C,MAAAmC,ic;K;;IAEpD,8c;MAAA,8b;MACuD,IAOpd,gc;MAAC,8c;MAAM,mc;K;IAEpD,8D;MAAA,kc;MAAU,0b;MAC9D,aAAY,c;K;IMEhC,wb;K;;IAEhuB,+c;MAC8C,MAAC,8c;MAAM,mc;K;;IAEpD,+b;MAC8C,MAAAmC,+b;MAC8C,MAC,wb;K;;IAEhc,+b;MAC8C,MAAAmC,ic;K;;IAEpd,8c;MAAA,8b;MACvuD,IAOpd,gc;MAAC,8c;MAAM,mc;K;IAEpD,8D;MAAA,kc;MAAU,0b;MAC9D,aAAY,c;K;;IMEhuB,+c;MAC8C,MAAAmC,ic;K;;IAEpd,8c;MAAA,8b;MACuD,IAOpd,gc;MAAC,8c;MAAM,mc;K;IAEpD,8D;MAAA,kc;MAAU,0b;MAC9D,aAAY,c;K;IMEhuB,+c;MAC8C,MAAAmC,ic;K;;IAEpd,8c;MAAA,8b;MACvuD,IAOpd,gc;MAAC,8c;MAAM,mc;K;;IAEpd,+c;MAC8C,MAAAmC,ic;K;IAEpd,8c;MAEI,IAAI,qBAAAJ,gc;MAAC,8c;MAAM,mc;K;;IAEpd,+c;MAC8C,MAAAmC,ic;K;;IAEpd,8c;MAAA,8b;MACvuD,IAOpd,gc;MAAC,8c;MAAM,mc;K;

AN,IAAW,G;;;MAGnB,OAAO,EAAS,OAAO,OAAM,EAAN,EAAgB,KAAhB,C;K;IAG3B,2B;MAMW,WAAO,S
;MAlBd,YAAY,MAAY,IAAK,OAAjB,C;MACZ,sBAAU,IAAV,a;QACI,UAAU,KAAK,CAAL,C;QACV,IAAI,oB
AAJ,C;UACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GAAL,C;;UAE1B,MAAM,CAAN,IAAW,G;;;MAYn
B,OATO,EAAS,OAAO,OAAM,EAAN,EAAgB,KAAhB,C;K;IAY3B,oC;MAWI,WAAqB,S;MACrB,IAAI,qBAA
mB,CAAY,OAAd,KAA2B,SAAhD,C;QAjCA,YAAY,MAkCM,IAlCW,OAAjB,C;QACZ,sBAiCkB,IAjClB,a;UAC
I,UAgCc,IAhCJ,CAAK,CAAL,C;UACV,IAAI,oBAAJ,C;YACI,MAAM,CAAN,IAAW,EAAS,MAAM,MAAK,GA
AL,C;;YAE1B,MAAM,CAAN,IAAW,G;;;QA4Bf,OAzBG,EAAS,OAAO,OAAM,EAAN,EAAgB,KAAhB,C;;QA2
BnB,WAAW,C;QACX,0BAAU,IAAV,e;UACY,IAAoB,I;UAA5B,eAAQ,QAAoB,OAApB,IAAQ,CAAH,GAAG,
CAAY,OAApB,oCAAR,K;;QAEJ,aAAa,IAAjB,CAAC,YAAgB,CAAH,IAAG,C;QE3FjB,IF4FyB,CE5FhB,OAAL
,KAAkB,SAAtB,C;UF4F4B,ME3FxB,UF2FqB,CE3FF,O;;QF4FnB,OAAO,C;QACP,0BAAU,IAAV,e;UAE0B,YA
CX,M;UAFX,YAAU,IAAQ,CAAH,GAAG,C;UACI,SAAJ,KAAI,O;UAAtB,aAAU,CAAV,kB;YACI,OAAO,aAA
P,EAAO,qBAAP,YAAiB,MAAI,CAAJ,C;;;QAGzB,OAAO,M;;K;IAIf,0B;MACgC,WAAS,c;MAAT,YAAhC,EAA
E,MAAM,KAAiD,CAA3C,SAA2C,C;MAWrD,eAAiB,I;MAXW,OAYrB,K;K;IAVX,uB;MAC6B,WAAS,W;MAA
T,YAAsB,IAA/C,CAAnC,EAAE,MAAM,KAAK,CAAC,SAAD,CAAsB,C;MAQ/C,eAAiB,I;MARsB,OASrB,K;K;MAK/C,e
AAiB,I;MALQ,OAMlB,K;K;K;2DAJX,uB;MAGI,eAAiB,I;MACjB,OAAO,K;K;kEG9MX,yB;MAAA,0B;MAAA,uB;QAS
I,OAAoB,OAAAb,ItD0Q+B,KAAL,GAAiB,KsD1Q9B,C;O;KATxB,C;ICIqC,2C;MAAC,8C;MAClC,eAAsB,C;MA
CtB,wBAA+B,C;MAC/B,gBAA6B,I;MAC7B,mBAAsC,I;MACtC,qBAAyC,I;MAEzC,yBAAgD,yBAAmB,Q;MA
EnE,sBAAgD,I;K;wFAFhD,Y;MAAA,6B;K;0CAIA,Y;MAEY,kBADR,M;MAAA,U;MAAA,2C;QAAA,e;;QAES,
gBADD,2CAAQ,yCAAR,gDAAwD,IAAxD,6BAAiE,I;QACzD,sB1C1wEd,S;Q0C1EF,S1C2EG,S;;M0C3EH,a;K;i
DAIJ,kB;MACI,kBAAAc,IAAd,C;MACiC,oB;MCuBrB,Q;MADR,IDtBsB,MCsBtB,W;QADJ,mBACiB,I;;QADjB,
mBAAEY,QDvBc,MCuBd,+D;;MDvBZ,yC;MACA,2BAAmC,MAAO,kBAA1C,C;MAGA,OAAO,IAAP,C;Q1CoC
Y,gB0C0nCH,S;;QACD,iBAAAiB,8B;QAGjB,IAAI,0BAAJ,C;UACI,qBAAc,e;;UAEd,oBAAAQ,0B;UACR,wBAAY,k
B;;;UAIZ,cAAc,oB;UACd,IAAI,YAAY,yBAAhB,C;YAAqC,M;UACrC,kBAAAQ,kBAAgb,O;UACrC,qBAAAmB,I;;UAEnB
,kBAAAQ,qBAAmB,S;;QAGvB,gC;QAEA,IAAI,wCAAJ,C;UAEI,YAAU,U;;UAGV,U;UAAA,0C;YET
hB,8BDgDQ,WAAO,qBAAP,CChDR,C;YFSgB,a;;YAAA,a;UAAA,mB;YAEK,UEpBrB,oBDgDQ,WD5B+B,eC4
B/B,CChDR,C;;;UFUfqB,M;;;K;mDAMhB,Y;MACI,kBAAAkB,kB;MACIB,IAAI,uBAAAuB,gBAAAgB,IAAA3C,C;QA
CI,uCAAQ,yCAAR,EAAAmC,wCAAA+B,WAAA/B,C;;MAEvC,sBAAAoB,mC;K;K;gGAEQ,Y;M7C0DyC,MAAM,6B6C1DjC,uC7C0C0D,WAA9B,C;K;K;yD6CxDnD,kB;M7CwDC,MAAM,6B6C6vDzC,uC7C7Cu
DuE,WAA9B,C;K;K;+C6C6CpDnD,Y;MAAkC,8C;K;;;;iARtC,6C;MAAA,4C;QAAA,2B;;MAAA,qC;K;IGyDA,mG;IA
AA,yH;IAAA,6F;MAKW,kC;MAAS,4C;K;IALpB,sEAMQ,Y;MACI,Q;MAAA,sC;QAAiB,U;;QMACjB,OAAAO,oB;;
K;IARnB,6G;sJAjIA,iC;MAgBU,OAAK,SAAL,CAAiB,UAAjB,EAA6B,KAA7B,C;K;K;wJAEV,2C;MAiBU,OAAK
,SAAL,CAAiB,QAAjB,EAA2B,UAA3B,EAAuC,KAAvC,C;K;K;wJAEV,kD;MAKU,OAAK,SAAL,CAAiB,QAAjB,
EAA2B,KAA3B,EAAkC,UAAlC,EAA8C,KAA9C,C;K;IAgC6C,oG;MAAA,mB;QAC3C,OAAAiC,iCAAL,CAAiB,k
BAAjB,C;O;K;IA/BZ,6D;MA0BI,IAAS,SAAY,OAAjB,IAA2B,CAA/B,C;QAAA,OAES,SAAL,CAAiB,UAAjB,E
AA6B,IAA7B,C;;QA8D0B,Q;QAAhE9B,4DAAImD,0DAAJnD,EAAgE8B,qBA5DS,UA4DT,qCAAhE9B,C;;K;IAwCmD,
wH;MAAA,mB;QAC3C,OAAAiC,iiAAL,CAAiB,kBAAjB,C;O;K;IAhCZ,6D;MA2BI,IAAS,SAAY,OAAjB,IAA2B,CAA
Y,OAAjB,IAA2B,CAA/B,C;QAAA,OAES,SAAL,CAAiB,UAAjB,EAA6B,IAA7B,C;;QA6DI,Q;QArDE,wH;MA2BI,IAAS
,SAAY,OAAjB,IAA2B,CAA/B,C;QAAA,OAES,SAAL,CAAiB,UAAjB,EAA6B,IAA7B,C;;QA8D1B,Q;QA5B9B,4DAAI
md,sEAJnD,EA4B8B,qBAxBS,UAwBT,qC,K;;K;IASJ,gC;MAWK,kBAAAD,M;MAAA,k
BAAC,qEAAD,4DAA2C,S;K;6CAG/C,yB;MAAA,mG;MAAA,yH;MAAA,6F;QAKW,kC;MAAS,4C;K;O;MALpB,s
EAMQ,Y;MAAA,Q;MAAA,sC;QAAiB,U;;QO;MARnB,6G;sJAjIA,iC;MAgBU,OAAK,SAAL,CAAiB,UAAjB,EAA6B
A8B,oEAAA9B,C;;O;MARnB,6G;iFC7HA,a;MAC6C,OAAAqB,sE;K;K;;iFC7HA,a;MAC6C,OAAAmC,sE;K;K;iFC7H
A,a;MAC6C,OAAAiB,sE;K;K;iFC7HA,a;MAC6C,OAAAmD,sE;K;K;;iFC7HA,a;MAC6C,OAAAqD,sE;K;K;iFC7HA
,iD;MAAA,4C;QAAA,2B;;MAAA,qC;K;IGsCA,mG;IAAA,yH;IAAA,6F;MAKW,kC;MAAS,4C;K;IALpB,sEAMQ,Y
;MAAA,Q;MAAA,sC;QAAiB,U;;QO;MARnB,6G;iFC7HA,iD;MAAA,4C;QAAA,2B;;MAAA,qC;K;;K;;iFC7HA,a;M
AC6C,OAAAkB,sE;K;K;iFC7HA,a;MAC6C,OAAAmC,sE;K;K;iFC7HA,a;MAC6C,OAAAiB,sE;K;K;iFC7HA,a;MAC6
C,OAAAmD,sE;K;K;iFC7HA,a;MAC6C,OAAAqD,sE;K;K;iFC7HA,a;MAC6C,OAAAuD,sE;K;K;iFC7HA,a;MAC6C,O
AAAyD,sE;K;K;iFC7HA,a;MAC6C,OAAA2D,sE;K;K;IAGsC,oG;MAAA,mB;QAC3C,OAAA8B,0CAAL,CAAiB,kBAA
jB,C;O;K;;IAChG,sC;MAAA,0D;MAAuB,6B;K;IAChG,sC;MAAuB,6B;K;IAChG,sC;MAAA,0D;MAAuB,6B;K;
B,C;MAAxC,Y;K;IAGsC,0C;MAA0D,qBAAU,OAAV,EAAmB,KAAnB,C;;K;IAChG,sC;MAAuB,6B

AAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,iD;MAAA,0D;MAAuC,6BAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,+C;MAAA,0D;MAAwC,6BAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAG8C,kD;MAA0D,4BAA,iB,OAAjB,EAA0B,KAA1B,C;;K;;IACxG,8C;MAAA,kE;MAAuB,qCAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;I,ACA,yD;MAAA,kE;MAAuC,qCAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,uD;MAAA,kE;MAAwC,qCAA,K,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAG2C,+C;MAA0D,4BAA,iB,OAAjB,EAA0B,KAA1B,C;;K;;IACrG,2C;MAAA,+D;MAAuB,kCAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,sD;MAAA,+D;MAAuC,kCAAK,OAAL,EAA,c,IAAd,C;MAAvC,Y;K;IACA,oD;MAAA,+D;MAAwC,kCAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAG+C,4C;8BAAwD,O;;K;;IACvG,+C;MAAA,mE;MAAuB,sCAAK,IAAL,C;MAAvB,Y;K;IAGqD,yD;MAA0D,4BAA,iB,OAAjB,EAA0B,KAA1B,C;;K;;IAC/G,qD;MAAA,yE;MAAuB,4CAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,gE;MAAA,yE;MAAuC,4CAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,8D;MAAA,yE;MAAwC,4CAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAGmD,uD;MAA0D,4BAA,iB,OAAjB,EAA0B,KAA1B,C;;K;;IA,C7G,mD;MAAA,uE;MAAuB,0CAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,8D;MAAA,uE;MAAuC,0CAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,4D;MAAA,uE;MAAwC,0CAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAI2C,wC;sCAAgE,O;;K;;IAC3G,2C;MAAA,+D;MAAuB,kCAAK,IAAL,C;MAAvB,Y;K;IAI0C,uC;8BAA,wD,O;;K;;IAClG,0C;MAAA,8D;MAAuB,iCAAK,IAAL,C;MAAvB,Y;K;IAGwC,qC;8BAAwD,O;;K;;IAChG,wC;MAAA,4D;MAAuB,+BAAK,IAAL,C;MAAvB,Y;K;IAIJ,wC;MACmD,mBAAM,OAAN,EAAe,KAAf,C;;K;;IAC/C,oC;MAAA,wD;MAAuB,sBAAK,IAAL,Q;MAAvB,Y;K;IACA,+C;MAAA,wD;MAAgC,2BAAK,OAAL,EAAc,IAAd,C;MAAhC,Y;K;IACA,+C;MAAA,wD;MAAiD,IAAY,I;MAAzB,2BAAa,SAAR,OAAQ,CAAb,EAAyB,sDA,AzB,C;MAApC,Y;K;IAG4C,yC;8BAAwD,O;;K;;IACpG,4C;MAAA,gE;MAAuB,mCAAK,IAAL,C;MAAvB,Y;K;IAIyC,sC;8BAAwD,O;;K;;IACjG,yC;MAAA,6D;MAAuB,gCAAK,IAAL,C;MAAvB,Y;K;IAGkD,sD;MAA0D,4BAA,iB,OAAjB,EAA0B,KAA1B,C;;K;;IAC5G,5G,kD;MAAA,sE;MAAuB,yCAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,6D;MAAA,sE;MAAuC,yCAAK,OAAL,EAAc,IAAd,C;MAAvC,Y;K;IACA,2D;MAAA,sE;MAAwC,yCAA,AK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;IAG0D,8D;MAA0D,4BAA,iB,OAAjB,EAA0B,KAA1B,C;;K;;IACpH, 0D;MAAA,8E;MAAuB,iDAAK,IAAL,EAAW,IAAX,C;MAAvB,Y;K;IACA,qE;MAAA,8E;MAAuC,iDAAK,OAA,AL,EAAc,IAAd,C;MAAvC,Y;K;IACA,mE;MAAA,8E;MAAwC,iDAAK,SAAL,EAAgB,KAAhB,C;MAAxC,Y;K;6FClGJ,yB;MAEI,OAAG,GAAG,CAAC,QAAD,C;K;mFAGV,oB;MAEI,OAAJ,GAAI,GAAE,G;K;6ETVN,a;MAK8C,cAAvC,C;K;6ECHP,Y;MAG+C,S;K;IA6B/C,2B;MAG4D,0BAAe,WAAf,C;K;IAE5D,mC;MAIwF,0BAAe,WAAf,C;K;IAExF,mC;MAKwE,0BAAe,WAAf,C;K;IAGxE,4B;MAI8D,Q;MAH1D,aAAkB,GAAI,O;MACtB,aAAkB,GAAI,O;MACtB,YAAiB,C;MACjB,OAAO,QAAQ,MAAR,IAAkB,QAAQ,MAAjC,C;MAAyC,QAAAyC,IAAI,KAAJ,I;AAa,IAAI,YAAAEAAI,oBAAAJ,O;;MACtD,OAAO,G;K;IAIX,wD;MAMuC,Q;MALnC,aAAa,MAAO,OAAM,CAAAN,C;MAAa,MAAAO,OAAAM,CA,AN,EAAS,OAAT,C;MACvC,IAzBc,IAAZ,I,CAyBoB,MAAAYBL,OAAL,KAAkB,SAAAAtB,C;MACtB,QAzBZ,sB;MA0BF,QAAAzBvB,YAAiB,MAAAO,O;MACxB,IAAI,UAAU,KAAd,C;MACI,gBAAgB,O;MAChB,OAAAf,C;K;UAAwB,OAAAO,YAAP,EAAAoBAAP,UAAkB,Y;;;MAE9C,OAAAO,M;K;IAGX,gD;MAKoB,aAAAa,AAa,KAAAM,Q;MACnB,MAAAO,OAAP,IAAiB,UAAAW,K;MAc5B,IAbc,IAAZ,I,Abc,KAAaL,OAAL,KAAkB,SAAAAtB,C;MAC7B,QAAAbvB,UAAiB,MAAAO,O;MAAX,4B;MAAwB,OAAO,G;K;;MAC3C,YAAAc,K;MACN,IAAI,UAAU,KAAd,C;MACI,gBAAgB,O;MAChB,OAAAf,C;UAAwB,OAAAO,YAAP,Y;;;;MAE9C,YAAP,Q;MACN,0FAGX,oB;MACI,IAAI,IAAAI,IAAK,OAAAL,KAAAkB,SAAAAtB,C;MACT,YAAAc,K;UAAwB,OAAAO,Y;;;0EAI3B,wB;MAMA,IAAI,QAAQ,OAAR,GAAP,EAAY,OAAAZ,OAAAA,EAAa,OAAAZ,C;K;IS/5E,mC;MAOI,kBAAK,BAAAkB,MAAAa,eAAAc,SAAAd,C;MACb/B,iBAAAiB,B;MAAA,eAAAc,IAAAd,C;MAC9B,IAAI,QAAQ,GAAAmB,WAAB,KAAAnB,MAAAiB,eAAAc,UAAnB,EAAAKyE,C;K;I4EAyBtF,2B;MAKsE,kBAAM,GAAA,OAAAQ,eAAAc,SAAd,C;K;IK;kEAGnF,qB;MACgD,OAA,AA,AAAO,KAAK,UAAS,GAAT,EAAc,IAAd,C;K;K;wEAAChC,qB;MAAQ,OAAK,SAAY,a;K;0EAACxB,qB;MAAQ,O,AAAK,SAAY,c;K;K;IC3D5D,0D;MAGI,OAAO,I;K;IChXsC,sC;MAMsD,OAAA,AA,AAA,SAAY,UAAS,WAAW,KAAX,CAAT,C;K;It,DKlE,uC;Mf2nBW,Q;MAAA,IernBgB,KfqnBZ,IAAS,CAAT,IernBY,KfqnBE,IAAS,wBAA3B,C;MQAAAA,OAAsC,UernBtB,KfqnBsB,C;;QernBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;K;;MAAtC,W;K;IAGJ,uC;Mf4nBW,Q;MAAA,IetnBgB,KfsnBZ,IAAS,CAAT,IetnBY,KfsnBE,IAAS,0BAA3B,C;MQAAAA,OAAsC,UetnBtB,KfsnBsB,C;;QetnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;K;;MAAtC,W;K;IAGJ,uC;Mf6nBW,Q;MAAA,IevnBgB,KfunBZ,IAAS,CAAT,IevnBY,KfunBE,IAAS,0BAA3B,C;MQAAAA,OAAsC,UevnBtB,KfunBsB,C;;QevnBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;

MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf8nBW,Q;MAAA,IexnBgB,KfwnBZ,I
AAS,CAAT,IexnBY,KfwnBE,IAAS,0BAA3B,C;QAAA,OAAsC,UexnBtB,KfwnBsB,C;;QexnBb,MAAM,8BAA0
B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;Mf+nBW,Q;MAAA,IeznBgB,KfynBZ,IAAS,CAAT,Iezn
BY,KfynBE,IAAS,0BAA3B,C;QAAA,OAAsC,UeznBtB,KfynBsB,C;;QeznBb,MAAM,8BAA0B,iCAAuB,gBAAv
B,MAA1B,C;;MAAtC,W;K;IAGJ,uC;MfgoBW,Q;MAAA,Ie1nBgB,Kf0nBZ,IAAS,CAAT,Ie1nBY,Kf0nBE,IAAS,
0BAA3B,C;QAAA,OAAsC,Ue1nBtB,Kf0nBsB,C;;Qe1nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MA
AtC,W;K;IAGJ,uC;MfioBW,Q;MAAA,Ie3nBgB,Kf2nBZ,IAAS,CAAT,Ie3nBY,Kf2nBE,IAAS,0BAA3B,C;QAAA
,OAAsC,Ue3nBtB,Kf2nBsB,C;;Qe3nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,uC;
MfkoBW,Q;MAAA,Ie5nBgB,Kf4nBZ,IAAS,CAAT,Ie5nBY,Kf4nBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue5nBtB,
Kf4nBsB,C;;Qe5nBb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,wC;MfmoBW,Q;MAA
A,Ie7nBgB,Kf6nBZ,IAAS,CAAT,Ie7nBY,Kf6nBE,IAAS,0BAA3B,C;QAAA,OAAsC,Ue7nBtB,Kf6nBsB,C;;Qe7n
Bb,MAAM,8BAA0B,iCAAuB,gBAAvB,MAA1B,C;;MAAtC,W;K;IAGJ,2B;MAII,OAAO,cAAa,SAAb,C;K;oFAG
X,yB;MAAA,gD;MAAA,4B;QAKI,OAAsC,OAA/B,SAA+B,C;O;KAL1C,C;oFAQA,yB;MAAA,gD;MAAA,4B;Q
AKI,OAAuC,OAAhC,SAAgC,C;O;KAL3C,C;oFAQA,yB;MAAA,gD;MAAA,4B;QAKI,OAAqC,OAA9B,SAA8B,
C;O;KALzC,C;oFAQA,yB;MAAA,gD;MAAA,4B;QAKI,OAAsC,OAA/B,SAA+B,C;O;KAL1C,C;oFAQA,yB;MA
AA,gD;MAAA,4B;QAKI,OAAuC,OAAhC,SAAgC,C;O;KAL3C,C;oFAQA,yB;MAAA,gD;MAAA,4B;QAKI,OA
AwC,OAAjC,SAAiC,C;O;KAL5C,C;oFAQA,yB;MAAA,gD;MAAA,4B;QAKI,OAAyC,OAAlC,SAAkC,C;O;KA
L7C,C;IAYW,2C;MAAA,8B;MAAS,uB;K;4FACW,Y;MAAQ,OAAA,gBAAY,O;K;6CAC3C,Y;MAAkC,OAAA,g
BfunP/B,YAAQ,C;K;oDetnPX,mB;MAAgD,OAAY,WAAZ,gBAAY,EAAS,OAAT,C;K;iDAC5D,iB;MACI,oCAA
a,2BAAkB,KAAlB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,E;K;mDAEX,mB;MAES,Q;MAAL,IAAI,e
AAC,uFAAD,CAAJ,C;QAAgC,OAAO,E;MACvC,OAAmB,UAAZ,gBAAY,EAAQ,OAAR,C;K;uDAEvB,mB;MA
ES,Q;MAAL,IAAI,eAAC,uFAAD,CAAJ,C;QAAgC,OAAO,E;MACvC,OAAmB,cAAZ,gBAAY,EAAY,OAAZ,C;
K;;IApB/B,6B;MAII,0C;K;IAqBJ,+C;MAaI,OAAY,kBAAL,SAAK,EAAkB,KAAlB,C;K;IAqBhB,0C;MASI,OAA
Y,oBAAL,SAAK,C;K;IAehB,0C;MAYI,OAAY,oBAAL,SAAK,C;K;IAkBhB,2C;MAWI,OAAY,cAAL,SAAK,EA
Ac,KAAd,C;K;IAGhB,2C;MAWI,OAAY,cAAL,SAAK,EAAc,KAAd,C;K;IAGhB,4C;MAWI,OAAY,cAAL,SAA
K,EAAc,KAAd,C;K;IAGhB,4C;MAWI,OAAY,cAAL,SAAK,EAAc,KAAd,C;K;IAGhB,4C;MAWI,OAAY,cAAL,
SAAK,EAAc,KAAd,C;K;IAGhB,4C;MAWI,OAAY,cAAL,SAAK,EAAc,KAAd,C;K;IAGhB,4C;MAWI,OAAY,c
AAL,SAAK,EAAc,KAAd,C;K;IAGhB,4C;MAWI,OAAY,cAAL,SAAK,EAAc,KAAd,C;K;IAGhB,4C;MAWI,OA
AY,cAAL,SAAK,EAAc,KAAd,C;K;IAwHhB,sC;MAOI,OAAY,gBAAL,SAAK,C;K;IAGhB,sC;MAOI,OAAY,gB
AAL,SAAK,C;K;IAGhB,uC;MAOI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAY,gBAAL,SAAK,C;K;IA
GhB,uC;MAOI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OA
AY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAOI,OAAY,gBAAL,SAAK,
C;K;IAoFhB,sC;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,sC;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MAS
I,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAY,gBAAL,SA
AK,C;K;IAGhB,uC;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;
MASI,OAAY,gBAAL,SAAK,C;K;IAGhB,uC;MASI,OAAY,gBAAL,SAAK,C;K;wFAsGhB,yB;MAAA,8C;MAA
A,kF;QAmB0E,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACvI,UAA
U,SAAV,EAAgB,WAAhB,EAA6B,iBAAA7B,EAAAgD,UAAhD,EAA4D,QAA5D,C;QACA,OAAO,W;O;KArBX,C;
wFAwBA,yB;MAAA,8C;MAAA,kF;QAmBoE,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;U
AAA,WAAgB,gB;QACjI,UAAU,SAAV,EAA0C,WAA1C,EAAiF,iBAAAjF,EAAoG,UAApG,EAAgH,QAAhH,C;Q
ACA,OAAO,W;O;KArBX,C;wFAwBA,yB;MAAA,8C;MAAA,kF;QAmB2E,iC;UAAA,oBAAyB,C;QAAG,0B;UA
AA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACvI,UAAU,SAAV,EAA2C,WAA3C,EAAmF,iBAAAnF,EAAsG,
UAAtG,EAAkH,QAAlH,C;QACA,OAAO,W;O;KArBX,C;wFAwBA,yB;MAAA,8C;MAAA,kF;QAmByC,WAA
AzC,EAAA+E,iBAAA/E,EAAAkG,UAAAlG,EAAA8G,QAA9G,C;QACA,OAAO,W;O;KACjI,UAAU,SAAV,EAA
0C,WAA1C,EAAiF,iBAAAjF,EAAoG,UAApG,EAAgH,QAAhH,C;QACA,OAAO,W;O;KArBX,C;wFAwBA,y
B;MAAA,8C;MAAA,kF;QAmB2E,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAg
B,gB;QACvI,UAAU,SAAV,EAA2C,WAA3C,EAAmF,iBAAAnF,EAAsG,UAAtG,EAAkH,QAAlH,C;QACA,OA
AO,W;O;KArBX,C;wFAwBA,yB;MAAA,8C;MAAA,kF;QAmByE,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAA
kB,C;QAAG,wB;UAAA,WAAgB,gB;QACjI,UAAU,SAAV,EAA0C,WAA1C,EAAiF,iBAAAjF,EAAoG,UAApG,E
AAgH,QAAhH,C;QACA,OAAO,W;O;KArBX,C;wFAwBA,yB;MAAA,8C;MAAA,kF;QAmB2E,iC;UAAA,oBAAy
B,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACvI,UAAU,SAAV,EAA2C,WAA3C,EAAmF,
iBAAAnF,EAAsG,UAAtG,EAAkH,QAAlH,C;QACA,OAAO,W;O;KArBX,C;wFAwBA,yB;MAAA,8C;MAAA,kF;
QAmB2C,WAAAzC,EAAA+E,iBAAA/E,EAAAkG,UAAAlG,EAAA8G,QAA9G,C;QACA,OAAO,W;O;KArBX,C;
wFAwBA,yB;MAAA,8C;MAAA,kF;QAmB0E,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UA
AA,WAAgB,gB;QACjI,UAAU,SAAV,EAA0C,WAA1C,EAAiF,iBAAAjF,EAAoG,UAApG,EAAgH,QAAhH,C;QA
CA,OAAO,W;O;KArBX,C;wFAwBA,yB;MAAA,8C;MAAA,kF;QAmB2E,iC;UAAA,oBAAyB,C;QAAG,0B;UA
AA,aAAkB,C;QAAG,wB;UAAA,WAAgB,w

B;UAAA,WAAgB,gB;QACnI,UAAU,SAAV,EAA2C,WAA3C,EAAmF,iBAAnF,EAAsG,UAAtG,EAAkH,QAAlH
,C;QACA,OAAO,W;O;KArBX,C;uFAwBA,yB;MAAA,8C;MAAA,kF;QAmBwE,iC;UAAA,oBAAyB,C;QAAG,0
B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACrI,UAAU,SAAV,EAA4C,WAA5C,EAAqF,iBAArF,EA
AwG,UAAxG,EAAoH,QAApH,C;QACA,OAAO,W;O;KArBX,C;yFAwBA,yB;MAAA,8C;MAAA,kF;QAmB0E,i
C;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;QACvI,UAAU,SAAV,EAA6C
,WAA7C,EAAuF,iBAAvF,EAA0G,UAA1G,EAAsH,QAAtH,C;QACA,OAAO,W;O;KArBX,C;yFAwBA,yB;MAA
A,8C;MAAA,kF;QAmBoE,iC;UAAA,oBAAyB,C;QAAG,0B;UAAA,aAAkB,C;QAAG,wB;UAAA,WAAgB,gB;Q
ACjI,UAAU,SAAV,EAA0C,WAA1C,EAAiF,iBAAjF,EAAoG,UAApG,EAAgH,QAAhH,C;QACA,OAAO,W;O;K
ArBX,C;oFAwBA,qB;MAOI,OAAY,SAAY,Q;K;oFAG5B,qB;MAOI,OAAY,SAAY,Q;K;oFAG5B,qB;MAOI,OA
AY,SAAY,Q;K;qFAG5B,qB;MAOI,OAAY,SAAY,Q;K;IAG5B,8B;MAMW,WAAS,W;MAAT,YAA2B,SAAY,Q;
MwCl7B9C,eAAiB,I;MxCk7BjB,OwCj7BO,K;K;qFxCo7BX,qB;MAOI,OAAY,SAAY,Q;K;qFAG5B,qB;MAOI,O
AAY,SAAY,Q;K;IAG5B,8B;MAMW,WAAS,c;MAAT,YAA8B,SAAY,Q;MwC/8BjD,eAAiB,I;MxC+8BjB,OwC9
8BO,K;K;IxCi9BX,8B;MAMW,WAAS,W;MAAT,YAA2B,SAAY,Q;MwCx9B9C,eAAiB,I;MxCw9BjB,OwCv9B
O,K;K;IxC09BX,uC;MD5oCI,IAAI,ECspCI,WAAW,CDtpCf,CAAJ,C;QACI,cCqpCoB,0C;QDppCpB,MAAM,gC
AAyB,OAAQ,WAAjC,C;;MCqpCV,OAAO,SAAS,SAAT,EAAe,cAAU,OAAV,CAAf,C;K;IAGX,uC;MD1pCI,IA
AI,ECoqCI,WAAW,CDpqCf,CAAJ,C;QACI,cCmqCoB,0C;QDlqCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;;MCm
qCV,OAAO,SAAS,SAAT,EAAe,eAAW,OAAX,CAAf,C;K;IAGX,uC;MDxqCI,IAAI,ECkrCI,WAAW,CDlrCf,CA
AJ,C;QACI,cCirCoB,0C;QDhrCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;;MCirCV,OAAO,SAAS,SAAT,EAAe,eA
AS,OAAT,CAAf,C;K;IAGX,uC;MDtrCI,IAAI,ECgsCI,WAAW,CDhsCf,CAAJ,C;QACI,cC+rCoB,0C;QD9rCpB,
MAAM,gCAAyB,OAAQ,WAAjC,C;;MC+rCH,WAAS,W;MAAT,YAAsB,gBAAgB,SAAhB,EAAsB,OAAtB,K;M
wChhC7B,eAAiB,I;MxCghCjB,OwC/gCO,K;K;IxCkhCX,uC;MDpsCI,IAAI,EC8sCI,WAAW,CD9sCf,CAAJ,C;Q
ACI,cC6sCoB,0C;QD5sCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;;MC6sCV,OAAO,SAAS,SAAT,EAAe,iBAAW,
OAAX,CAAf,C;K;IAGX,uC;MDltCI,IAAI,EC4tCI,WAAW,CD5tCf,CAAJ,C;QACI,cC2tCoB,0C;QD1tCpB,MAA
M,gCAAyB,OAAQ,WAAjC,C;;MC2tCV,OAAO,SAAS,SAAT,EAAe,iBAAY,OAAZ,CAAf,C;K;IAGX,uC;MDhu
CI,IAAI,EC0uCI,WAAW,CD1uCf,CAAJ,C;QACI,cCyuCoB,0C;QDxuCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;;
MCyuCH,WAAS,c;MAAT,YAAyB,gBAAgB,SAAhB,EAAsB,OAAtB,EAA+B,KAA/B,C;MwC1jChC,eAAiB,I;M
xC0jCjB,OwCzjCO,K;K;IxC4jCX,uC;MD9uCI,IAAI,ECwvCI,WAAW,CDxvCf,CAAJ,C;QACI,cCuvCoB,0C;QDt
vCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;;MCuvCH,WAAS,W;MAAT,YAAsB,SAAS,SAAT,EAAe,iBAAU,OA
AV,CAAf,C;MwCxkC7B,eAAiB,I;MxCwkCjB,OwCvkCO,K;K;IxC0kCX,uC;MD5vCI,IAAI,ECuwCI,WAAW,C
DvwCf,CAAJ,C;QACI,cCswCoB,0C;QDrwCpB,MAAM,gCAAyB,OAAQ,WAAjC,C;;MCswCV,OAAO,gBAAgB
,SAAhB,EAAsB,OAAtB,EAA+B,IAA/B,C;K;IAGX,sD;MAWI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAs
C,gBAAtC,C;MACb,OAAY,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;K;IAG5B,sD;MAUI,oCAAa,2BAAkB,SAAl
B,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,OAAY,SAAY,OAAM,SAAN,EAAiB,O
AAjB,C;K;IAG5B,sD;MAUI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,OAAY,SAAY
,OAAM,SAAN,EAAiB,OAAjB,C;K;IAG5B,sD;MAUI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAt
C,C;MACN,WAAS,W;MAAT,YAA2B,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;MwC9pC9C,eAAiB,I;MxC8pCj
B,OwC7pCO,K;K;IxCgqCX,sD;MAUI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,OA
AY,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;K;IAG5B,sD;MAUI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAA
sC,gBAAtC,C;MACb,OAAY,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;K;IAG5B,uD;MAUI,oCAAa,2BAAkB,SA
AlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACN,WAAS,c;MAAT,YAA8B,SAAY,OAAM,SAAN,EAAiB,OAAjB
,C;MwCxsCjD,eAAiB,I;MxCwsCjB,OwCvsCO,K;K;IxC0sCX,uD;MAUI,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7
B,EAAsC,gBAAtC,C;MACN,WAAS,W;MAAT,YAA2B,SAAY,OAAM,SAAN,EAAiB,OAAjB,C;MwCttC9C,eA
AiB,I;MxCstCjB,OwCrtCO,K;K;IxCwtCX,wD;MAWgD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC
/E,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EA
AyB,OAAzB,C;K;K;IAGrB,wD;MAWgD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC/E,oCAAa,2BA
AkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;
K;IAGrB,wD;MAWkD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACjF,oCAAa,2BAAkB,SAAlB,EA

A6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;IAGrB,wD;M
AW8C,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC7E,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EA
AsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;IAGrB,wD;MAWgD,yB;QAA
A,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC/E,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;
MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;IAGrB,wD;MAWkD,yB;QAAA,YAAiB,C;MA
AG,uB;QAAA,UAAe,gB;MACjF,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,M
AAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;IAGrB,wD;MAWoD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,U
AAe,gB;MACnF,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EA
Ac,SAAd,EAAyB,OAAzB,C;K;IAGrB,yD;MAWsD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACrF,o
CAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,
OAAzB,C;K;IAGrB,yD;MAWgD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC/E,oCAAa,2BAAkB,S
AAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACR,SAAY,MAAK,OAAL,EAAc,SAAd,EAAyB,OAAzB,C;K;iFA
GrB,8B;MAKI,OAAY,SAAY,QAAO,CAAQ,OAAR,CAAP,C;K;iFAG5B,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwI
O,gCAxIK,eAAY,OAAZ,EAAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCAxIK,gBA
Aa,OAAAb,EAAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCAxIK,gBAAW,OAAX,EA
wIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCAxIK,mBAAY,OAAZ,CAwIL,C;O;KA7
IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCAxIK,kBAAa,OAAAb,EAAwIL,C;O;KA7IX,C;gFAQA,y
B;MAwIA,iD;MAxIA,qC;QAKI,OAwIO,gCAxIK,kBAAc,OAAAd,EAAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;M
AxIA,qC;QAKI,OAwIO,gCAxIK,sBAAe,OAAAf,CAwIL,C;O;KA7IX,C;iFAQA,yB;MAwIA,iD;MAxIA,qC;QAKI,
OAwIO,gCAxIK,mBAAY,OAAZ,CAwIL,C;O;KA7IX,C;IAQA,sC;MAKI,OAAO,oBAAoB,SAApB,EAA0B,QAA
1B,C;K;IAGX,sC;MAII,OAAO,mBAAwB,UAAL,SAAK,EAAO,mBAAO,QAAS,KAAhB,IAAP,CAAxB,EAAsD,
SAAK,OAA3D,EAAiE,QAAjE,C;K;IAGX,sC;MAII,OAAO,mBAAwB,UAAL,SAAK,EAAO,mBAAO,QAAS,KA
AhB,IAAP,CAAxB,EAAsD,SAAK,OAA3D,EAAiE,QAAjE,C;K;IAGX,sC;MAII,OAAO,mBAAwB,UAAL,SAAK
,EAAO,mBAAO,QAAS,KAAhB,IAAP,CAAxB,EAAsD,SAAK,OAA3D,EAAiE,QAAjE,C;K;IAGX,sC;MAII,OA
AO,oBAAoB,SAApB,EAA0B,QAA1B,C;K;IAGX,sC;MAII,OAAO,mBAAwB,UAAL,SAAK,EAAO,mBAAO,QA
AS,KAAhB,IAAP,CAAxB,EAAsD,SAAK,OAA3D,EAAiE,QAAjE,C;K;IAGX,sC;MAII,OAAO,mBAAwB,UAAL
,SAAK,EAAO,mBAAO,QAAS,KAAhB,IAAP,CAAxB,EAAsD,SAAK,OAA3D,EAAiE,QAAjE,C;K;IAGX,sC;M
AII,OAAO,oBAAoB,SAApB,EAA0B,QAA1B,C;K;IAGX,sC;MAII,OAAO,mBAAwB,UAAL,SAAK,EAAO,mBA
AO,QAAS,KAAhB,IAAP,CAAxB,EAAsD,SAAK,OAA3D,EAAiE,QAAjE,C;K;iFAGX,+B;MAKI,OAAY,SAAY,
QAAO,QAAP,C;K;iFAG5B,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KAL
X,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;
MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MA
AA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,O
AAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,
SAArB,EAA2B,QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,
QAA3B,C;O;KALX,C;iFAQA,yB;MAAA,iD;MAAA,sC;QAKI,OAAO,qBAAqB,SAArB,EAA2B,QAA3B,C;O;K
ALX,C;8FAQA,8B;MAKI,OAAY,SAAY,QAAO,CAAQ,OAAR,CAAP,C;K;IAoBL,2B;MAAsB,OAAA,CAAE,iB
AAU,CAAV,C;K;IAP/C,2B;MAOI,IAAAI,mBAAO,CAAX,C;QAwQY,eAxQO,WAAwQP,C;;K;IAnNhB,2B;MA
QI,IAAI,mBAAO,CAAX,C;QAAc,cAAc,SAAV,C;K;IAGlB,wC;MAQI,IAAI,mBAAO,CAAX,C;QAAc,cAAc,SA
Ad,EAAoB,UAApB,C;K;IAGlB,gD;MAewD,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACvF,oCAAa,2B
AAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,gBAAc,SAAd,EAAoB,SAApB,EAA+B,EAA+B,OAA/B,E
AAwC,cAAxC,C;K;IAGJ,gD;MAaiC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAChE,oCAAa,2BAAkB,SA
AlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAc,SAAY,UAAS,SAAT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,
C;K;IAGb,gD;MAakC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACjE,oCAAa,2BAAkB,SAAlB,EAA6B,OA
A7B,EAAsC,gBAAtC,C;MACb,eAAc,SAAY,UAAS,SAAT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;
MAagC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAC/D,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,
gBAAtC,C;MACb,eAAc,SAAY,UAAS,SAAT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAaiC,yB;Q
AAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAChE,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;M
ACb,eAAc,SAAY,UAAS,SAAT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAaiC,yB;QAAA,YAAiB,C;
MAAG,uB;QAAA,UAAe,gB;MAChE,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAc,S
AAY,UAAS,SAAT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAaiC,yB;QAAA,YAAiB,C;MAAG,uB;
QAAA,UAAe,gB;MAChE,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C;MACb,eAAc,SAAY,UAAS,
SAAT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,C;K;IAGb,gD;MAaiC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAA
e,gB;MAChE,oCAAa,2BAAkB,S

AAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C,C;MACb,gBAAc,SAAd,EAA8C,SAA9C,EAAyD,OAAzD,EAAkE,cAAl
E,C,K;IAGJ,gD;MAakC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MACjE,oCAAa,2BAAkB,SAAlB,EA
A6B,OAA7B,EAAsC,gBAAtC,C,C;MACb,eAAoB,SAAY,UAAS,SAAT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,
C;K;IAGb,gD;MAamC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAClE,oCAAa,2BAAkB,SAAlB,EA
A6B,OAA7B,EAAsC,gBAAtC,C,C;MACb,eAAoB,SAAY,UAAS,SAAT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,
C;K;IAGb,gD;MAaiC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,gB;MAChE,oCAAa,2BAAkB,SAAlB,EAA
6B,OAA7B,EAAsC,gBAAtC,C,C;MACb,eAAoB,SAAY,UAAS,SAAT,EAAoB,OAApB,C;MACvB,KAAT,QAAS,C
;K;iFAGb,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,
SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;iFAGhB,iC;MAOI,SAAY,MAAK,UAA
L,C;K;iFAGhB,iC;MAOI,SAAY,MAAK,UAAL,C;K;IAGhB,yC;M
AMI,IAAI,mBAAO,CAAX,C;QAAc,gBAAc,SAAd,EAAoB,UAApB,C;K;IAGlB,+D;MAa0E,yB;QAAA,YAAiB,
C;MAAG,uB;QAAA,UAAe,gB;MACzG,oCAAa,2BAAkB,SAAlB,EAA6B,OAA7B,EAAsC,gBAAtC,C,C;MACb,gB
AAc,SAAd,EAAoB,SAApB,EAA+B,OAA/B,EAAwC,UAAxC,C,C;K;IAGJ,mC;MAII,OAAO,EAAS,MAAM,MAA
K,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAA
M,MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EA
AS,MAAM,MAAK,SAAL,C;K;IAG1B,mC;MAII,OAAO,EAAS,MAAM,MAAK,SAAL,C;K;IAG1B,mC;MAII,O
AAO,EAAS,MAAM,MAAK,SAAL,C;K;IAOH,kD;MAAA,wB;QAAW,qCAAK,KAAL,E;O;K;IAJlC,oC;MAII,O
AAO,iBAAM,gBAAN,EAAY,gCAAZ,C;K;IuDnpEX,oB;MAAA,wB;MAEI,6B;MACA,gC;MAKuB,UAAT,MAA
S,EAAT,MAAS,EAAT,M;MAFV,eAAe,kE;MACf,iBAAiB,eAAS,GAAT,C;MACE,sBAAT,QAAS,C;MAAT,mB;
MAAA,kB;MAAA,kB;MAAV,8C;QACI,WAAW,oBAAS,CAAT,CzC2BuB,IyC3BlC,IAA+B,C;;MAInC,qBAAqB,
48C;MACrB,WAAW,mBAAmB,cAAnB,EAAmC,UAAnC,EAA+C,IAA/C,C;MACX,YAAY,eAAS,IAAK,OAAL
,GAAY,CAAZ,IAAT,C;MACZ,0BAAU,IAAV,e;QACI,MAAM,MAAI,CAAJ,IAAN,IAAe,MAAM,GAAN,IAAW,
KAAK,GAAL,CAAX,I;;MAEnB,yBAAoB,K;MAGpB,oBAAoB,m/D;MACpB,4BAAuB,mBAAmB,aAAnB,EAA
kC,UAAlC,EAA8C,IAA9C,C;K;;;IAvB/B,gC;MAAA,+B;QAAA,c;;MAAA,wB;K;IA2BA,qC;MAKkB,IAJP,I;MA
CH,WAAO,EAAAP,C;QAAe,W;WACf,WAAO,IAAAP,C;QAAgB,OAAAI,CAAC,KAAO,CAAR,MAAc,CAAlB,GAA
qB,QAAS,CAA9B,GAAqC,OAAS,E;;QAE1D,QAAM,KAAK,CAAX,C;eACI,C;YAAK,eAAS,E;YAAd,K;;;MAJR,W;K;IAYJ,qC;MAII,SA
AS,SzCRiC,I;MyCU1C,YAAY,kBAAkB,sBAAS,kBAA3B,EAA8C,EAA9C,C;MACZ,YAAY,sBAAS,kBAAT,CA
A2B,KAA3B,C;MACZ,WAAW,sBAAS,qBAAT,CAA8B,KAA9B,C;MACX,YAAY,kBAAkB,IAAlB,EAAwB,KA
AK,KAAL,IAAxB,C;MAEZ,OAAW,UAAS,EAAAb,GAAyC,GAAoD,K;K;K;IAG/D,8D;MAKiB,UAAIE,M;M
ARf,aAAAa,eAAS,YAAT,C;MACb,YAAY,C;MACZ,UAAU,C;MACV,YAAY,C;MACC,yB;MAAb,OAAa,cAAb,
,C;QAAAaC,iC;QACT,aAAAa,WAAAW,IzCxBc,IyCwBzB,C;QACb,MAAM,MAAAQ,CAAAC,SAAW,EAAAZ,KAAsB,K;K;QACpC,IAAAI,SAAS,EAAAb,C;QAAb,C;;MAGA,yB;MACI,SAAS,EAAAb,C;K;;

OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KARlB,C;mFAWA,yB;MAAA,iB;MAAA,0B;QA
QI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KARlB,C;IAWA,4B;MAQc,Q;MADV,UAAU,
C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAAM,SAAM,GAAN,EAAW,CAAX,C;;MACv
B,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAi
B,MAxHV,MAAO,KAwHe,GAxHf,EAwHoB,CAxHpB,C;;MAyHd,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UA
AU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAlIV,MAAO,KAkIe,GAlIf,EAkIoB,CAlIp
B,C;;MAmId,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAA
V,M;QAAiB,MA5IV,MAAO,KA4Ie,GA5If,EA4IoB,CA5IpB,C;;MA6Id,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,
UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAuB,UAAM,G;QAAZ,MA7IN,oBA6IuB,CA7
IvB,MAAJ,GAAY,GAAZ,GA6I2B,C;;MAClC,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAA
U,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9IV,MAAO,KA8Ie,GA9If,EA8IoB,CA9IpB,C;;MA+Id,OAAO
,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA/IV,
MAAO,KA+Ie,GA/If,EA+IoB,CA/IpB,C;;MAgJd,OAAO,G;K;IAGX,wB;MAOI,OAAW,oBAAK,CAAL,MAAJ,G
AAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MAkBA,iB;MAlBA,uB;QAMI,OAkBO,MAAO,KAlBC,CAkBD,EAlBY,
CAkBZ,C;O;KAxBlB,C;mFASA,yB;MASA,iB;MATA,uB;QAMI,OASO,MAAO,KATC,CASD,EATY,CASZ,C;O
;KAflB,C;mFASA,yB;MAAA,iB;MAAA,uB;QAMI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KANlB,C;m
FASA,gB;MAMI,OAAW,kBAAK,CAAL,MAAJ,GAAY,CAAZ,GAAmB,C;K;mFAG9B,yB;MAAA,iB;MAAA,uB
;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARlB,C;mFAWA,yB;MAAA,iB;MAAA,uB;QAQI,OAA
O,MAAO,KAAI,CAAJ,EAAO,CAAP,C;O;KARlB,C;IAWA,2B;MAOI,OAAO,SAAM,CAAN,EAAS,SAAM,CAA
N,EAAS,CAAT,CAAT,C;K;mFAGX,yB;MAAA,iB;MAAA,0B;QAMI,OAAO,MAAO,KAAM,CAAN,EAAiB,CA
AjB,EAA4B,CAA5B,C;O;KANlB,C;mFASA,yB;MAAA,iB;MAAA,0B;QAMI,OAAO,MAAO,KAAM,CAAN,EA
AiB,CAAjB,EAA4B,CAA5B,C;O;KANlB,C;mFASA,yB;MAAA,iB;MAAA,0B;QAMI,OAAO,MAAO,KAAI,CA
AJ,EAAO,CAAP,EAAU,CAAV,C;O;KANlB,C;mFASA,mB;MAMW,UAAe,CApEX,iBAoEc,CApEd,MAAJ,GAo
Ee,CApEf,GAoEkB,C;MAAzB,OAAa,CApEF,iBAAK,GAAL,MAAJ,GAoEM,CApEN,GAAmB,G;K;mFAuE9B,y
B;MAAA,iB;MAAA,0B;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KARlB,C;mFAW
A,yB;MAAA,iB;MAAA,0B;QAQI,OAAO,MAAO,KAAI,CAAJ,EAAO,CAAP,EAAU,CAAV,C;O;KARlB,C;IAW
A,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAAM,SAAM,G
AAN,EAAW,CAAX,C;;MACvB,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;
QAAU,QAAA,KAAV,M;QAAiB,MAxHV,MAAO,KAwHe,GAxHf,EAwHoB,CAxHpB,C;;MAyHd,OAAO,G;K;I
AGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MAlIV,MAA
O,KAkIe,GAlIf,EAkIoB,CAlIpB,C;;MAmId,OAAO,G;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,
KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA5IV,MAAO,KA4Ie,GA5If,EA4IoB,CA5IpB,C;;MA6Id,OAAO,G
;K;IAGX,4B;MAMc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAuB,UAAM,
G;QAAZ,MA7IN,oBA6IuB,CA7IvB,MAAJ,GAAY,GAAZ,GA6I2B,C;;MAClC,OAAO,G;K;IAGX,4B;MAQc,Q;
MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,QAAA,KAAV,M;QAAiB,MA9IV,MAAO,KA8Ie,GA9If,E
A8IoB,CA9IpB,C;;MA+Id,OAAO,G;K;IAGX,4B;MAQc,Q;MADV,UAAU,C;MACV,wBAAU,KAAV,gB;QAAU,
QAAA,KAAV,M;QAAiB,MA/IV,MAAO,KA+Ie,GA/If,EA+IoB,CA/IpB,C;;MAgJd,OAAO,G;K;IAGX,wB;MAA
A,qB;MAEI,0BAA0B,gBACtB,EADsB,EACd,IADc,EACN,IADM,EACE,IADF,EACU,IADV,EACkB,IADlB,EA
C0B,IAD1B,EACkC,IADlC,EAC0C,IAD1C,EACkD,IADlD,EAC0D,IAD1D,EACkE,IADlE,EAC0E,IAD1E,EACk
F,IADlF,EAC0F,IAD1F,EACkG,IADlG,EAC0G,IAD1G,EACkH,IADlH,EAC0H,IAD1H,EACkI,IADlI,EAEtB,IA
FsB,EAEd,IAFc,EAEN,IAFM,EAEE,IAFF,EAEU,IAFV,EAEkB,IAFlB,EAE0B,IAF1B,EAEkC,IAFlC,EAE0C,IA
F1C,EAEkD,KAFlD,EAE0D,KAF1D,EAEkE,KAFlE,EAE0E,KAF1E,EAEkF,KAFlF,EAE0F,KAF1F,EAEkG,KA
FlG,EAE0G,KAF1G,E;K;;;IAF9B,6B;MAAA,4B;QAAA,W;;MAAA,qB;K;IAQA,0C;MAKI,aAAa,C;MACb,UAA
U,KAAM,OAAN,GAAa,CAAb,I;MACV,aAAa,E;MACb,YAAY,C;MACZ,OAAO,UAAU,GAAAjB,C;QACI,SAAS
,CAAC,SAAS,GAAT,IAAD,IAAiB,I;QAC1B,IAAI,SAAS,KAAb,C;UACI,SAAS,KAAb,C;UAAC,UACD,OAAO,
M;;UACP,UAEP,MAAM,SAAS,CAAT,I;;;MAEd,OAAO,UAAc,SAAS,KAAb,GAAoB,GAApB,GAAoB,CAAp
B,GAA2B,CAArC,K;K;;IAGX,mC;MAKI,SAAS,S3CCiC,I;M2CA1C,YAAY,kBAAkB,mBAAM,mBAAxB,EAA
oC,EAApC,C;MACZ,WAAW,KAAK,mBAAM,mBAAN,CAAiB,KAAj

B,CAAL,I;MACX,OAAW,OAAO,EAAX,GAAe,IAAf,GAAyB,E;K;IAGpC,gC;MAII,OAAO,6BAAoB,C;K;IC7C/
B,kB;MAAA,sB;MAEI,6B;MACA,8B;MACA,gC;MAKuB,UAAT,MAAS,EAAT,MAAS,EAAT,M;MAFV,eAAe,
kE;MACf,iBAAiB,eAAS,GAAT,C;MACE,sBAAT,QAAS,C;MAAT,mB;MAAA,kB;MAAA,kB;MAAV,8C;QACI,
WAAW,oBAAS,CAAT,C5C0BuB,I4C1BlC,IAA+B,C;;MAInC,qBAAQb,sW;MACrB,WAAW,mBAAmB,cAAnB,
EAAmC,UAAnC,EAA+C,GAA/C,C;MACX,YAAY,eAAS,IAAK,OAAd,C;MACZ,0BAAU,IAAV,e;QACI,IAAI,
QAAK,CAAT,C;UAAY,MAAM,GAAN,IAAW,KAAK,GAAL,C;;UAClB,MAAM,GAAN,IAAW,MAAM,MAAI,
CAAJ,IAAN,IAAe,KAAK,GAAL,CAAf,I;;MAEpB,yBAAoB,K;MAGpB,kBAAkB,0U;MAClB,0BAAqB,mBAA
mB,WAAnB,EAAgC,UAAhC,EAAA4C,GAA5C,C;MAGrB,oBAAoB,i8B;MACpB,4BAAuB,mBAAmB,aAAnB,E
AAkC,UAAlC,EAA8C,GAA9C,C;K;;;IA7B/B,8B;MAAA,6B;QAAA,Y;;MAAA,sB;K;IAiCA,iC;MAII,OAAO,6B
AAmB,C;K;IAG9B,oC;MAIW,wCAAmB,C;MAAnB,U;QAA6B,wB5CRM,a4CQN,C;;MAApC,W;K;IAGJ,oC;M
AIW,wCAAmB,C;MAAnB,U;QAA6B,wB5CfM,a4CeN,C;;MAApC,W;K;IAGJ,kC;MAQI,SAAS,S5C1BiC,I;M4C
2B1C,YAAY,kBAAkB,oBAAO,kBAAzB,EAA4C,EAA5C,C;MAEZ,iBAAiB,oBAAO,kBAAP,CAAyB,KAAzB,C
;MACjB,eAAe,aAAa,oBAAO,mBAAP,CAA0B,KAA1B,CAAb,GAAgD,CAAhD,I;MACf,WAAW,oBAAO,qBAA
P,CAA4B,KAA5B,C;MAEX,IAAI,KAAK,QAAT,C;QACI,OAAO,C;;MAGX,kBAAkB,OAAS,C;MAE3B,IAAI,g
BAAe,CAAnB,C;QACI,YAAY,C;QACZ,gBAAgB,U;QAChB,aAAU,CAAV,OAAa,CAAb,M;UACI,yBAAc,QAA
S,KAAV,GAAqB,GAAAlC,K;UACI,YAAY,EAAAhB,C;YACI,OAAO,C;;UAEX,gBAAS,CAAT,I;UACI,YAAY,
EAAAhB,C;YACI,OAAO,C;;;QAEJ,OAAO,C;;MAGX,IAAI,QAAQ,CAAZ,C;QACI,OAAO,W;;MAGX,eAAAgB,
KAAK,UAAL,I;MAChB,cAAgB,QAAAQ,EAAAZ,GAAAkB,WAAW,CAA7B,GAAoC,Q;MAChD,OAAAQ,SAAU,I
AAI,OAAAJ,IAAAV,CAAD,GAA2B,C;K;K;ICnGtC,0B;MAAA,8B;MACI,+BAA+B,gBAC3B,GAD2B,EACnB,G
ADmB,EACX,GADW,EACH,GADG,EACK,GADL,EACa,GADb,EACqB,GADrB,EAC6B,IAD7B,EACqC,IADrC,EAC6
D,IAD7D,EACqE,IADrE,EAC6E,IAD7E,EACqF,IADrF,EAC6F,KAD7F,EACqG,KAD7G,EACq
H,KADrH,E;MAG/B,gCAAgC,gBAC5B,CAD4B,EACzB,CADyB,EACtB,CADsB,EACnB,CADmB,EAChB,CADgB,
EACb,CADa,EACV,CADU,EACP,CADO,EACH,CADG,EACA,CADA,EACI,CADJ,EACO,
CADP,EACU,CADV,EACc,CADd,EACkB,CADlB,EACsB,CADtB,EACyB,CADzB,EAC4B,CAD5B,EAC+B,CA
D/B,EACkC,CADlC,E;K;;;IAJpC,sC;MAAA,qC;QAAA,oB;;MAAA,8B;K;IASA,qC;MACI,YAAY,kBAAkB,4BA
Ae,wBAAjC,EAAAkD,SAAAlD,C;MACZ,OAAAO,SAAS,CAAT,IAAc,aAAA4BAAe,wBAAf,CAA+B,KAA/B,IAA
wC,4BAAe,yBAAf,CAAAgC,KAAAhC,C;K;IC12B,qC;MACI,OAAAe,IAAAR,8BAAAgB,B,IAAAhB,B,KACY,I
AAR,8BAAAgB,B,IADpB,C;K;IC12B,wC;M5CiBW,Q;MAAA,I4CXgB,K5CWhB,Q;QAAAA,I4CXgB,K5CWx
B,CAAa,K4CXW,I5CWxB,C;;Q4CXA,I4CXgB,K5CWxB,CAAAsB,K4CXQ,I5CWxB,C;;Q4CXA,I4CXgB,KAA
S,CAAT,I4CXxB,C;;M4CXA,I4CXgB,K;K;IC1B3B,Q;MAAA,I4CXY,K5CWZ,C;QAAA,I4CXY,KAAM,8BAAN,
KAAS,CAAT,I4CXZ,C;;M4CXY,K;K;ICPX,wC;MxCqTe,WwwC7SY,KxC6SZ,IAAS,C;MAAT,S;QAAAc,OwwC7
SF,KxC6SE,IAqgHT,gBAAR,iBAAQ,C;;MArgHT,U;K;;MArgHT,S;QAAAA,SAAsC,sBwwC7StB,KxwC6SsB,C;;
;QwwC7Sb,MAAM,8BAAA0B,B,iCAAuB,cAAAvB,B,MAA1B,C;;MAAtC,a;K;MAAAtC,a;K;IAGJ,wC;MxCqTe
,WwwC9SY,KxC8SZ,IAAS,C;MAAT,S;QAAAc,OwwC9SF,KxC8SE,IAig
HT,gBAAR,iBAAQ,C;;MAjgHT,U;K;;MAjgHT,S;QAAAA,SAAsC,sBwwC9StB,KxwC8SsB,C;;;QwwC9Sb,M
AAM,8BAAA0B,B,iCAAuB,cAAAvB,B,MAA1B,C;;MAAtC,a;K;MAAAtC,a;K;IAGJ,wC;MxCqTe,WwwCuTe,
WwwC/SY,KxC+SZ,IAAS,C;MAAT,S;QAAAc,OwwC/SF,KxC+SE,IA6/GT,gBAAR,iBAAQ,C;;MA7/GT,U;K;;M
A7/GT,S;QAAAA,SAAsC,sBwwC/StB,KxwC+SsB,C;;;QwwC/Sb,M
AAM,8BAAA0B,B,iCAAuB,cAAAvB,B,MAA1B,C;;MAAtC,a;K;MAAAtC,a;K;IASO,6C;MAAA,8B;MAAS,uB;
K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAgD,OAA
A,gBAAY,gBAAS,OAAT,C;K;mDAC5D,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAAzB,C;MACb,OAAAO,
6BAAY,KAAZ,C;K;K;qDAEX,mB;MAAES,Q;MAAAL,IAAA,eAAkB,KAAlB,EAAyB,eAAAtB,C;MACvC,OAAA,
sBAAA,OxCsCrBA,gBxCsCqBA,gBxwCy6BR,QAAQ,EwCtCrBoB,EwcztrBA,gBxxCts71BR,QAAQ,Ew
AAC,0EAAD,OAAJ,C;QAAgC,OAAO,E;;MACvC,0EAAD,OAAJ,C;QAAgC,OAAO,E;;MAAtC,a;K;K;;IwC/7Bn
B,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAA
A,gBAAY,gBAAS,OAAT,C;K;;IwC/7BnB,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAA
Q,OAAA,gBA

AY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBAAY,gBAAS,OAAT,C;K;m
DAC7D,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;
MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OxCqqBO,UwCrqBA,gBxCqqBR,QA
AQ,EwCrqBoB,O3DgNA,KmBqdpB,C;K;yDwCnqBX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAi
C,OAAO,E;MACxC,OxCw5BO,cwCx5BA,gBxCw5BR,QAAQ,EwCx5BwB,O3D2MJ,KmB6sBpB,C;K;;IwC96Bn
B,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MA
AkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC7D,iB;MACI,oCAAa
,2BAAkB,KAAlB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eA
AC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OxCopBO,UwCppBA,gBxCopBR,QAAQ,EwCppBoB,O5EkIA,K
oCkhBpB,C;K;yDwClpBX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OxCu4
BO,cwCv4BA,gBxCu4BR,QAAQ,EwCv4BwB,O5E6HJ,KoC0wBpB,C;K;;IwC75BnB,8B;MAMI,4C;K;IA2BO,6C
;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDA
C9C,mB;MAAkD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC9D,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SA
AzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,SAAJ,C;QAAkC,
OAAO,E;MACzC,OxCmoBO,UwCnoBA,gBxCmoBR,QAAQ,EwCnoBoB,O1EkHE,KkCihBtB,C;K;yDwCjoBX,
mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,SAAJ,C;QAAkC,OAAO,E;MACzC,OxCs3BO,cwCt3BA,gBxCs3BR,Q
AAQ,EwCt3BwB,O1E6GF,KkCywBtB,C;K;;IwC54BnB,8B;MAMI,4C;K;ICtIJ,qC;MAII,SAAS,SlD+BiC,I;MkD9
B1C,OAAa,CAAN,gBAAc,EAAd,KACU,EAAN,gBAAc,EADlB,KAEI,OAAM,GAFV,KAGI,KAAK,IAAL,KAC
C,OAAM,IAAN,KACS,IAAN,gBAAc,IADjB,KAEG,OAAM,IAFT,IAGG,OAAM,IAHT,IAIG,OAAM,IAJT,IAK
G,OAAM,IALT,IAMG,OAAM,KAPV,CAHJ,C;K;;;;mCCTP,gB;;K;;ICAJ,wB;K;;IAIA,wB;K;;IAIA,wB;K;;IAKiC
,uB;MAAC,oB;QAAA,OAA0B,E;MAA1B,gB;K;;IAElC,kB;K;;IAqCqC,sB;MAAC,gB;K;;IAgCN,4B;MAAC,sB;
K;;IAEjC,uB;K;;IA8DmC,4B;MAAC,kB;K;;IAEpC,oB;K;;IAmCA,+B;K;;ICvLA,oB;K;;IAIA,wB;K;;oF7DLA,qB;
MAKqE,uCoCoCHtB,E;K;iGpCK/C,yB;MAAA,kD;MAAA,4B;QAQsE,mBAAY,SAAZ,C;O;KARtE,C;IAUA,iC;MA
GI,OAAsB,UAAY,QAAvB,KAAmC,SAA9C,GACe,UAAY,UAD3B,GAGI,gBAAgB,UAAhB,C;K;IAGR,qC;MA
EI,YoC1B2C,E;MpC2B3C,eAAe,UAAAW,W;MAC1B,OAAAO,QAAS,UAAhB,C;QAACU,KAAY,MAAK,QAAS,OA
Ad,C;MACtB,OAAO,K;K;IAGX,8C;MAQc,Q;MANV,IAAI,KAAM,OAAAN,GAAa,UAAW,KAA5B,C;QACI,OA
AO,gBAAAgB,UAAAhB,C;;MAEX,eAAe,UAAAW,W;MAC1B,YAAY,C;MACZ,OAAAX,QAAS,UAAhB,C;QACI,
MAAM,YAAN,EAAAM,oBAAAN,UAAAiB,QAAAS,O;;MAE9B,IAAAI,QAAQ,KAAM,OAAAN,GAAAV,oBAAAN,
UAAAiB,QAAS,KAAS,SlD+BiC,I;MkD9B1C,OAAa,CAAN,gBAAc,EAAd,KACU,EAAN,gBAAc,EADlB,KAEI
,OAAM,GAFV,KAGI,KAAK,IAAL,KACC,OAAM,IAAN,KACS,IAAN,gBAAc,IADjB,KAEG,OAAM,IAFT,IA
Ae,I;;MAEnB,OAAO,K;K;IAIX,yB;MAG6C,sBAAY,OAAZ,E;K;wGAE7C,yB;MAAA,+D;MAAA,gC;QAI0B,qB
AAf,gB;QAAqB,aJW5B,W;QIXA,OJYO,SIZoC,Q;O;KAJ/C,C;IAGA,yB;MAAA,4E;MAAA,gE;MAAA,0C;QA
II,qBAAqB,QAAAT,C;QAC8B,gBAAAvB,eAAa,QAAAb,C;QAA6B,aJGpC,W;QIHA,OJIO,SIJO,Q;O;KA
LvD,C;IASA,wB;MAG2C,oBAAAU,OAAV,E;K;sGAE3C,yB;MAAA,uE;MAAA,gC;QAI8B,oB;QAAAyB,aJVhC,W;
QIUA,OJTO,SISwC,Q;O;KAJnD,C;IAWI,mE;MAAA,0C;QAIsC,gBAAA3B,3B;MAAAiB,QAAAjB,C;QAAAiC,aJ
AiC,aJjBxC,W;QIiBA,OJhBO,SIgBgD,Q;O;KAJ3D,C;IAUI,mE;MAAA,0C;QAKA3B,3D;MkDyA,IAAuD,oBAAU
,IAAV,E;K;sGAEvD,yB;MAAA,uE;MAAA,gC;QAI8B,oB;QAAAyB,aJzBhC,W;QIyBA,OJxBO,SIwBgD,Q;O;KAJn
D,C;IAWI,mE;MAAA,0C;QAII,wDAAc,mDAAoB,QAAApB,C;QAAoC,aJAAiC,C;QAAA,cAJtC3,C3C3C,W;QI
Ads,OJAA,SIAA3,Q;O;KAJ9D,C;IASA,mC;MAOqB,Q;MAAAkC,aJ0BhB,W;QAAXyB,OJ/BI,SI+BqB,Q;O;KAPzB,
C;IAUA,mC;MAOqB,Q;MAAAmC,aJ0BhB,W;QAAXyB,OJ/BI,SI+BqB,Q;O;KAPzB,C;IAUA,wB;K;;IAKiC,uB;MAA
C,oB;QAAA,OAA0B,E;MAA1B,gB;K;;IAElC,kB;K;;IAqCqC,sB;MAAC,gB;K;;IAgCN,4B;MAAC,sB;K;;IAEjC,u
B;K;;IA8DmC,4B;MAAC,kB;K;;IAEpC,oB;K;;IAmCA,+B;K;;ICvLA,oB;K;;IAIA,wB;K;;oF7DLA,qB;MAKqE,u
CoCoCHtB,E;K;iGpCK/C,yB;MAAA,kD;MAAA,4B;QAQsE,mBAAY,SAAZ,C;O;KARtE,C;IAUA,iC;MAGI,OAAs
b,UAAY,QAAvB,KAAmC,SAA9C,GACe,UAAY,UAD3B,GAGI,gBAAgB,UAAhB,C;K;IAGR,qC;MAEI,YoC1B2C
,E;MpC2B3C,eAAe,UAAAW,W;MAC1B,OAAAO,QAAS,UAAhB,C;QACI,MAAM,YAAN,EAAAM,oBAAAN,UA
AAiB,QAAAS,O;;MAE9B,IAAAI,QAAQ,KAAM,OAAAN,G;K;yDAAX,mB;MAIwE,kBAAAhB,0B;MAAAwB,uB;
MAAAxB,OJjE7C,W;K;;IImEX,EX,4B;MAQI,gBAAAgB,W;QAAHS,AAhB,EAAsB,cAAAtB,C;K;;IAGJ,2C;MAQI,gB
AAAgB,W;QAAHS,AAhB,EAAsB,UAAAtB,C;K;;IAGJ,2C;MACI,IAAAI,IAAK,KAAAL,IAAa,KAAAL,IAAAa,
CAAAjB,C;QAAAoB,M;MAAEpB,B;MAAAA,YAAY,YAAAY,C;MACZ,gBAAAc,KAAAd,EAAAEAAq
B,UAAArB,C;MAAEA,aAAa,aAAAU,CAAAV,MAAAkB,B;MAAAOAAxB,M;MQACI,iBAAAK,CAAAL,EAAA
sB,OJjE7C,W;MImEX,OJnEW,SImEX,Q;O;KAJ9D,C;IAQI,iBAAAK,CAAAL,EAAAsBAAc,CAAAd,UAAAsB,
OJjE7C,W;K;;IImEX,eAAAsB,IAAAI,WAAAkB,BAAAA,c,iBAAAd,C;;K;QAAExB,IAAI,WAAW,WAAAX,
IAA0B,qBAAAqB,B,UAAnD,C;K;UACI,iBAAAc,CAAAAd,CAAAd,UAAAsb,SAAAtB,U;Y
ACI,YAAY,oBAAAoB,B,KAAApB,IAAAZ,IAAAyC,OAAO,aAAAa,KAAb,IAAAP,C;K;;;;K;8GAMzD,

qB;MAEgF,gB;K;kGAEhF,yB;MAAA,4D;MAAA,4B;QAC8E,OAAK,aAAL,SAAK,C;O;KADnF,C;sGAIA,gC;M
AEI,OAAI,SAAJ,GAEI,SAFJ,GAII,SN83BoB,Q;K;IM13B5B,mC;MAEI,IAAI,QAAQ,CAAZ,C;QACI,oB;;MAEJ,
OAAO,K;K;IAGX,mC;MAEI,IAAI,QAAQ,CAAZ,C;QACI,oB;;MAEJ,OAAO,K;K;IAIX,mC;MAIqD,mB;K;IAEr
D,wC;MPzNI,IAAI,EOgOI,YAAY,CPhOhB,CAAJ,C;QACI,cO+NqB,gC;QP9NrB,MAAM,gCAAyB,OAAQ,WA
AjC,C;;K;IOiOd,8C;MAAoE,Y;K;I8D1PV,qC;MAAiC,6B;K;uDAIvF,mB;MACI,qB;MACA,eAAe,e;MACf,OAA
O,QAAS,UAAhB,C;QACI,IAAI,OAAA,QAAS,OAAT,EAAmB,OAAnB,CAAJ,C;UACI,QAAS,S;UACT,OAAO,I
;;;MAGf,OAAO,K;K;yDAGX,oB;MAGoB,Q;MAFhB,qB;MACA,eAAe,K;MACC,0B;MAAhB,OAAgB,cAAhB,C
;QAAgB,yB;QACZ,IAAI,eAAI,OAAJ,CAAJ,C;UAAkB,WAAW,I;;MAEjC,OAAO,Q;K;IAKuC,sE;MAAA,qB;;Q
AAE,OAAM,gBAAN,mB;O;K;4DAFpD,oB;MAEY,Q;MADR,qB;MACA,OAAoC,YAA5B,iEAA4B,EAAU,oDA
AV,C;K;IAKU,sE;MAAA,qB;;QAAE,QAAO,gBAAP,mB;O;K;4DAFpD,oB;MAEY,Q;MADR,qB;MACA,OAAoC
,YAA5B,iEAA4B,EAAU,oDAAV,C;K;gDAGxC,Y;MACI,qB;MACA,eAAe,IAAK,W;MACpB,OAAO,QAAS,UA
AhB,C;QACI,QAAS,O;QACT,QAAS,S;;K;iDAIjB,Y;MAE8B,OAAA,IAAK,U;K;yDAGnC,Y;K;;IC3CgD,+B;MA
AiC,oC;MACjF,gBAA8B,C;K;8CAM9B,mB;MAMI,qB;MACA,iBAAI,SAAJ,EAAU,OAAV,C;MACA,OAAO,I;
K;mDAGX,2B;MAMc,UACF,M;MANR,oCAAa,4BAAmB,KAAnB,EAA0B,SAA1B,C;MAEb,qB;MACA,aAAa,
K;MACb,cAAc,K;MACJ,0B;MAAV,OAAU,OAAAV,OAAAU,cAAV,C;QAAU,mB;QACN,kBAAI,eAAJ,EAAI,uBAAJ,WAAc,CA
Ad,C;QACA,UAAU,I;;MAEd,OAAO,O;K;;0CAGX,Y;MACI,qB;MACA,yBAAY,CAAZ,EAAe,SAAf,C;K;IAKiB,
gE;MAAA,qB;QAAE,OAAM,gBAAN,mB;O;K;sDAFvB,oB;MACI,qB;MACA,OAAO,kBAAU,8CAAV,C;K;IAK
U,gE;MAAA,qB;QAAE,QAAO,gBAAP,mB;O;K;sDAFvB,oB;MACI,qB;MACA,OAAO,kBAAU,8CAAV,C;K;6C
AIX,Y;MAAqD,iD;K;mDAErD,mB;MAAoD,0BAAQ,OAAR,KAAoB,C;K;kDAExE,mB;MACqB,Q;MAAA,6B;
MAAjB,iBAAc,CAAd,yB;QACI,IAAI,wBAAAI,iBAAAc,sBAAAd,WAAA+B,CAA/B,U;QACI,IAAI,wBAAAI,iBAA
Ac,IAAd,GAAAc,OAAAd,CAAAJ,C;UACI,OAAAI,OAAAJ,C;;;K;;wDAE5E,8B;MAII,eAAe,0BAAAa,SAAAb,C;
MACf,YAAAO,UAAAU,SAAAV,I;MnEuDX,iBAAAc,CAAAd,UAAsB,KAAAtB,U;QmEtDiB,e;QACA,iB;;K;2CAIjB,i
B;MAMI,IAAI,UAAU,IAAAd,C;QAAoB,OAAAO,I;MAC3B,IAAI,2BAAAJ,C;QAAuB,OAAAK,MAE9B,OAAAo
C
AAa,uBAAAc,IAAd,EAAAoB,KAApB,C;K;6CAGxB,Y;MAG+B,OAAAA,oCAAa,yBAAAgB,IAAhB,C;K;IAG5C,kD;
MAAA,oB;MACI,eAACsB,C;MACtB,cAIqB,E;K;yDAErB,Y;MAAkC,sBAAAQ,gB;K;sDAE1C,Y;MAEW,Q;MADP
,IAAI,CAAAL,C;QAAAgB,MAAM,6B;MACtB,eAAAO,mBAAP,EAAAO,2BAAAP,O;MACA,OAAAA,OAAAwBAAI,WA
AJ,C;K;;wDAGX,Y;MtE5CJ,IAAI,EsE6CU,gBAAAQ,EtE7ClB,CAAJ,C;QACI,csE4CwB,sE;QtE3CxB,MAAM,6BA
AAsB,OAAAQ,WAAA9B,C;;MsE6CF,6BAAAS,WAAAT,C;MACA,eAAAQ,W;MACR,cAAO,E;K;;IAOqB,6D;MAH
pC,o
B;MAGmD,wD;MAG3C,oCAAa,4BAAmB,KAAnB,EAA0B,EAA0B,WAAAyB,KAAAnD,C;MACb,eAAAa,K;K;;iEAG
jB,Y;M
AAsC,sBAAAQ,C;K;;+DAE9C,Y;MAAgC,mB;K;8DAEhC,Y;MACI,IAAI,CAAAC,kBAAAL,C;QAAAoB,MAAA,6B
;M
AE1B,eAAAO,mCAAP,EAAAO,YAAP,C;MACA,OAAAA,OAAAwBAAI,WAAAJ,C;K;;mEAGX,Y;MAAoC,sBAAAQ,C
AAR,I;
K;+DAEpC,mB;MACI,wBAAI,YAAJ,EAAAW,OAAAX,C;MACA,mC;MACA,cAAAO,E;K;+DAGX,mB;MtElFJ,IAA
I,EsEmFU,gBAAAQ,EtEnFlB,CAAJ,C;QACI,csEkFwB,4E;QtEjFxB,MAAM,6BAAAsB,OAAAQ,WAAA9B,C;;MsEkF
FF
,wBAAI,WAAAJ,EAAAU,OAAAV,C;K;;IAIgB,+D;MAAuB,8B;MAAtF,kB;MAAA0C,4B;MAC/D,eAAAyB,C;MAGrB
,o
CAAa,2BAAAkB,gBAAAlB,IB,EAA6B,OAA7B,EAAAsC,WAAK,KAA3C,C;MACb,eAAa,UAAAU,gBAAAV,I;K;;wDAGjB
,0B
;MACI,oCAAa,4BAAmB,KAAnB,EAA0B,YAA1B,C;MAEb,WAAK,aAAAI,mBAAAY,KAAAZ,IAAAJ,EAAAuB,OAA
AvB,C;K;;
MACL,mC;K;;wDAGJ,iB;MACI,oCAAa,2BAAAkB,gBAAAlB,KB,EAAyB,YAAzB,C;MAEb,OAAAO,OAAAwB,AAAK,mB
B
AAY,KAAAZ,IAAL,C;K;;6DAGX,iB;MACI,oCAAa,2BAAAkB,gBAAAlB,IB,EAAAuB,OAAAvB,C;MAEb,aAAAa,WAA
A
K,kB
AAS,mBAAAY,KAAAZ,IAAT,C;MACLb,mC;MACA,OAAAO,OAAAAO,M;K;;wDAGX,0B;MACI,oCAAa,2BAAAkB,gBA
AAlB,
IB,EAAAuB,OAAAvB,C;MAEb,OAAAO,OAAAW,AAAK,aAAAI,mBAAAY,KAAAZ,IAAAJ,EAAAuB,OAAAvB,C;K;;mGA
GO
,Y;MAAAQ,mB
B
;K;2DAE/B,Y;MAA+C,WAAAK,iB;K;;;ICxMN,8B;MAAiC,sB;MAwCnF,uBAAoC,I;MA+CpC,yBAAAA6C,I;K;IAlFR,
oD;MAAAC,wB;K;K;iFAHa,Y;MAAAA,yB;K;uGAKZ,Y;MAAQ,oB;K;8DAE9B,oB;MAKI,eA
Ae,IAAK,S;MACpB,gBAAAc,Q;MACd,OAAAO,Q;K;;wDAGX,Y;MAA+B,iEAAc,IAAd,C;K;;wDAC/B,Y;MAAAkC,i
EAAc,IAAd,C;K;;sDAClC,iB;MAA4C,+DAAAY,IAAAZ,EAAAkB,KAAAlB,C;K;;IAlB5C,8E;MAAA,wE;MAAsC,2CA
AAK,KAAAM,IAAAX,EAAAgB,KAAAhB,C;K;;IAsBJ,+C;MACsE,6B;K;mEAClE,mB;MAAmD,kCA
Ac,OAAAd,C;K;;iEAEnD,mB;MAAAiD,gCAAAY,OAAAZ,C;K;;yCAIrD,Y;MACI,YAAAQ,Q;K;;IAOQ,+F;MAAA,sD;M

AAS,6B;K;uFACb,mB;MAAwC,MAAM,qCAA8B,8BAA9B,C;K;mFAC9C,Y;MACI,4BAAwB,Q;K;4FAG5B,mB;MAAsD,sDAAY,OAAZ,C;K;IAI3C,oH;MAAA,kD;K;4GACH,Y;MAAkC,OAAA,0BAAc,U;K;yGAChD,Y;MAAyB,OAAA,0BAAc,OAAO,I;K;2GAC9C,Y;MAAwB,0BAAc,S;K;;sFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5B,6G;K;0FAOJ,mB;MACI,qB;MACA,IAAI,+CAAY,OAAZ,CAAJ,C;QACI,4BAAwB,cAAO,OAAP,C;QACxB,OAAO,I;;MAEX,OAAO,K;K;oIAGY,Y;MAAQ,OAAA,4BAAwB,K;K;4FAEvD,Y;MAAsC,4BAAwB,iB;K;;0FA9B1E,Y;MACI,IAAI,4BAAJ,C;QACI,6F;;MA+BJ,OAAO,mC;K;kDAKf,gB;MAEyB,Q;MADrB,qB;MACqB,OAAA,I9E8Q2D,QAAQ,W;M8E9QxF,OAAqB,cAArB,C;QAAqB,wB;QAAf,U9EiMsD,U;Q8EjMjD,Y9E8MiD,Y;Q8E7MxD,iBAAI,GAAJ,EAAS,KAAT,C;;K;IAQc,iG;MAAA,sD;MAAS,oC;K;yFACf,mB;MAAwC,MAAM,qCAA8B,gCAA9B,C;K;qFAC9C,Y;MAAuB,4BAAwB,Q;K;8FAE/C,mB;MAAsD,wDAAc,OAAd,C;K;IAI3C,sH;MAAA,kD;K;8GACH,Y;MAAkC,OAAA,0BAAc,U;K;2GAChD,Y;MAAyB,OAAA,0BAAc,OAAO,M;K;6GAC9C,Y;MAAwB,0BAAc,S;K;;wFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5B,+G;K;sIAOmB,Y;MAAQ,OAAA,4BAAwB,K;K;8FAEvD,Y;MAAsC,4BAAwB,iB;K;;4FAnB1E,Y;MACI,IAAI,8BAAJ,C;QACI,iG;;MAoBJ,OAAO,qC;K;gDAGf,e;MACI,qB;MACA,WAAAW,YAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACI,YAAY,IAAK,O;QACjB,QAAQ,KAAM,I;QACd,IAAI,YAAO,CAAP,CAAJ,C;UACI,YAAY,KAAM,M;UAClB,IAAK,S;UACL,OAAO,K;;;MAGf,OAAO,I;K;kDAIX,Y;K;;IC3I+C,8B;MAAiC,oC;K;0CAEhF,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAAO,I;MAC3B,MAC3B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,mCAAY,mBAAU,IAAV,EAAgB,KAAhB,C;K;4CAGvB,Y;MAG+B,OAAA,mCAAY,2BAAkB,IAAlB,C;K;;ICbT,0B;MAAuD,8B;MAAlC,4B;MAACvD,4BAAkC,K;K;gCAkBlC,Y;MAEI,qB;MACA,4BAAAa,I;MACb,OAAO,I;K;qCAGX,Y;K;iDAGA,uB;K;iFAG8B,Y;MAAQ,OAAA,oBAAAM,O;K;sCAC5C,iB;MAMI,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAA,oCAAY,2BAAkB,IAAlB,C;K;sCAGpB,Q;MAAA,oCAAM,0BAAW,KAAX,CAAN,4D;K;sCACzB,0B;MAIW,IAAAa,I;MAHP,qB;MACA,0BAAW,KAAX,C;MAEoB,gBAAAb,I;MAACb,qBAAAW,Q;MAACtC,MAAQ,oC;MAAlC,OAAO,iB;K;sCAGX,mB;MAII,qB;MACA,oBAAAb,I;MAACb,qBAAAW,Q;MACb,OAAO,I;K;sCAGX,mB;MAII,qB;MACA,oBAAAb,I;MACb,OAAO,I;K;uCAGX,Y;MAAQ,OAAA,oBAAAb,O;K;;ICZpB,oCAAQ,2B;MACI,qB;MACA,IAAI,QAAAS,UAAb,C;QAAwB,OAAAd,I;MACb,OAAA,oCAAQ,yCAAAX,2B;K;yCAMI,mC;MACA,IAAAb,I;MADP,qB;MACA,mCAAoB,KAAApB,C;MACZ,OAAA,oCAAQ,s1;MAAb,OAAAT;K;MAEA,IAAAc,I;MAFP,qB;MACA,mCAAoB,QAAAAAoB,C;MACpB,CAAP,EAAAmC,C;MAEnC,OAAO,sCAAQ,mB;K;uCACA,oB;MACI,qB;MACA,IAAI,QAAAS,UAAb,C;QAAwB,OAAAd,I;MACb,OAAA,oCAAQ,yCAAAX,2B;K;yCAGI,2B;MACI,qB;MACA,IAAI,QAAAb,U;MACb,OAAO,I;K;MAE3DB,uBAAAA,oBACV,QAAAT,OAAO,oBAAAAPR,C;;MwEroD,qD;MYkEgDrD,QlEhDqD,C;C;MwEhoDpB,qc;MACA,OAAO,I;K;yCAGX,2B;MACI,qB;MACA,mCAAoB,KAApB,C;MACA,qC;MACA,OAAAV,C;K;MwEwN,OAAO,sCAAQ,mB;MAAAbR,uBAAAAoC,cAA5B,oBAA4B,EAAAV,C;KAAAbR,C;K;yCAGI,2B;MACA,IAAAb,I;MADP,qB;MACA,0BAAW,KAAX,C;MACA,qC;MACA,OAAAV,C;K;MwErNgDrD,QlEmNqD,C;;C;M8EjMjD,YIAAAa,oBAAAb;;MAAAa,oBAAAAC,I;MAAAD,oBAAAAE,I;MAAAF,oBAAAAG,I;;;MAAAH,oBAAAAI,C;M8ErMxD,iBAAI,GAAJ,EAAS,KAAT,C;;K;IAAR,gE;MACI,qB;MACA,aAAAa,YAAQ,W;MAACb,qBAAAW,Q;MACV,qCACV,EAAAAC,I;MAAAZ,qBAAAAD,I;MAAAZ,qBAAAAF,I;;MAAAE,qBAAAAa,C;MAACpB,MAAQ,oC;MAAxB,OAAO,sCAAQ,mB;K;yCAGI,2B;MACA,IAAAb,I;MADP,qB;MACA,aAAAa,oBAAAb;MACA,qC;MACA,OAAAV,C;K;MwEkLgDrD,QlEgLqD,I;;;C;M0EvMzD,2C;;MAAA,mD;K;4CAGf,gB;MwEgQoC,Y;MAAAD,Q;MxEhQpC,oB;MACA,IAAA,0BAAAb,oBAAAAE,I;MAAAF,oBAAAAG,C;MAACpD,MACV,IAAAa,oBAAAAC,I;MAAAD,oBAAAAJ,C;MAAApD,MAAQ,oC;MAA5B,OAAO,I;K;iDAGX,2B;MwEsPoC,Y;MAAAD,Q;MxEtPpC,oB;MACA,0BAAW,KAAX,C;MACA,qC;MACA,OAAAV,C;K;MwEgOgDrD,QlE8NqD,I;;;;

AAS,6B;K;uFACb,mB;MAAwC,MAAM,qCAA8B,8BAA9B,C;K;mFAC9C,Y;MACI,4BAAwB,Q;K;4FAG5B,mB
;MAAsD,sDAAY,OAAZ,C;K;IAI3C,oH;MAAA,kD;K;4GACH,Y;MAAkC,OAAA,0BAAc,U;K;yGAChD,Y;MAA
yB,OAAA,0BAAc,OAAO,I;K;2GAC9C,Y;MAAwB,0BAAc,S;K;;sFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5
B,6G;K;0FAOJ,mB;MACI,qB;MACA,IAAI,+CAAY,OAAZ,CAAJ,C;QACI,4BAAwB,cAAO,OAAP,C;QACxB,O
AAO,I;;MAEX,OAAO,K;K;oIAGY,Y;MAAQ,OAAA,4BAAwB,K;K;4FAEvD,Y;MAAsC,4BAAwB,iB;K;;0FA9B
1E,Y;MACI,IAAI,4BAAJ,C;QACI,6F;;MA+BJ,OAAO,mC;K;kDAKf,gB;MAEyB,Q;MADrB,qB;MACqB,OAAA,
I9E8Q2D,QAAQ,W;M8E9QxF,OAAqB,cAArB,C;QAAqB,wB;QAAf,U9EiMsD,U;Q8EjMjD,Y9E8MiD,Y;Q8E7
MxD,iBAAI,GAAJ,EAAS,KAAT,C;;K;IAQc,iG;MAAA,sD;MAAS,oC;K;yFACf,mB;MAAwC,MAAM,qCAA8B,
gCAA9B,C;K;qFAC9C,Y;MAAuB,4BAAwB,Q;K;8FAE/C,mB;MAAsD,wDAAc,OAAd,C;K;IAI3C,sH;MAAA,k
D;K;8GACH,Y;MAAkC,OAAA,0BAAc,U;K;2GAChD,Y;MAAyB,OAAA,0BAAc,OAAO,M;K;6GAC9C,Y;MAA
wB,0BAAc,S;K;;wFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5B,+G;K;sIAOmB,Y;MAAQ,OAAA,4BAAwB,K;
K;8FAEvD,Y;MAAsC,4BAAwB,iB;K;;4FAnB1E,Y;MACI,IAAI,8BAAJ,C;QACI,iG;;MAoBJ,OAAO,qC;K;gDA
Gf,e;MACI,qB;MACA,WAAAW,YAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACI,YAAY,IAAK,O;QACjB,QAAQ,KAAM,I;QACd,IAAI,YAAO,CAAP,CAAJ,C;UACI,YAAY,KAAM,M;UAClB,IAAK,S;UACL,OAAO,K;;;MA
Gf,OAAO,I;K;kDAIX,Y;K;;IC3I+C,8B;MAAiC,oC;K;0CAEhF,iB;MMI,IAAI,UAAU,IAAd,C;QAAoB,OAAAO,I;K;kDAIX,Y;K;
MAC3B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,mCAAY,mBAAU,IAAV,EAAgB,KAAhB,C;K;4CAG
vB,Y;MAG+B,OAAA,mCAAY,2BAAkB,IAAlB,C;K;;ICbT,0B;MAAuD,8B;MAAlC,4B;MAACvD,4BAAkC,K;K;g
CAkBlC,Y;MAEI,qB;MACA,4BAAAa,I;MACb,OAAO,I;K;qCAGX,Y;K;iDAGA,uB;K;iFAG8B,Y;MAAQ,OAAA,
oBAAAM,O;K;sCAC5C,iB;MMI,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAA,oCAAY,2BAAkB,IAAlB,C;K;sCAGpB,Q;
MAAA,oCAAM,0BAAW,KAAX,CAAN,4D;K;sCACzB,0B;MII W,IAAAb,I;MHP,qB;MACA,0BAAW,KAAX,C;M
AElB,gBAAAb,I;MAACb,qBAAAW,Q;MACb,OAAO,iB;K;sCAGX,mB;MII,qB;MACA,oBAAAb,I;MAACb,qBAAAW,Q;MACb,OAAO,I;K;sCAGX,mB;M
AAI,qB;MACA,IAAI,QAAAS,UAAb,C;QAAwB,OAAAd,I;MAEA,KAAAC,I;MAACb,qBAAAW,Q;MACb,OAAO,I;K;uCAGX,Y;MAAQ,OAAA,oBAAAb,O;K;;ICZpB,oCAAQ,2B;M
ACI,qB;MACA,IAAI,QAAAS,UAAb,C;QAAwB,OAAAd,I;MACb,OAAA,oCAAQ,yCAAAX,2B;K;yCAMI,mC;M
ACA,IAAAb,I;MADP,qB;MACA,mCAAoB,KAApB,C;MACZ,OAAA,oCAAQ,s1;MAAb,OAAAT;K;MwEroD,q
D;MYkEgDrD,QlEhDqD,C;C;MwEhoDpB,qc;MACA,OAAO,I;K;yCAGX,2B;MACI,qB;MACA,mCAAoB,KAApB,C;MACA,qC;MACA,OAAAV,C;K;MwEwN,OAA
O,sCAAQ,mB;MAAAbR,uBAAAAoC,cAA5B,oBAA4B,EAAAV,C;KAAAbR,C;K;yCAGI,2B;MACA,IAAAb,I;MA
DP,qB;MACA,0BAAW,KAAX,C;MACA,qC;MACA,OAAAV,C;K;MwErNgDrD,QlEmNqD,C;;C;M8EjMjD,Y
IAAAa,oBAAAb;;MAAAa,oBAAAAC,I;MAAAD,oBAAAAE,I;MAAAF,oBAAAAG,I;;;MAAAH,oBAAAAI,C;M8ErMxD,iBAAI,GAAJ,EAAS,KAAT,C;;K;IAAR,gE;MACI,qB;M
ACA,aAAAa,YAAQ,W;MAACb,qBAAAW,Q;MACV,qCACV,EAAAAC,I;MAAAZ,qBAAAAD,I;MAAAZ,qBAAAAF,I;;MAAAE,qBAAAAa,C;MAACpB,MAAQ,oC;MAAxB,OAAO,sCAAQ,mB;K;yCAG
I,2B;MACA,IAAAb,I;MADP,qB;MACA,aAAAa,oBAAAb;MACA,qC;MACA,OAAAV,C;K;MwEkLgDrD,QlEgLqD,I;;;C;M0EvMzD,2C;;MAAA,mD;K;4CAGf,gB;MwEgQoC,Y;MAAAD,Q;Mx
EhQpC,oB;MACA,IAAA,0BAAAb,oBAAAAE,I;MAAAF,oBAAAAG,C;MAACpD,MACV,IAAAa,oBAAAAC,I;MAAAD,oBAAAAJ,C;MAApD,MAAQ,oC;MAA5B,OAAO,I;K;iDAGX,2B;MwEsPoC,Y;MAAAD,Q;MxEtPpC,oB;MACA,0BAAW,KAAX,C;MACA,qC;MACA,OAAAV,C;K;MwEgOgDrD,QlE8NqD,I;;;;

AAV,C;K;IAF3C,0B;MACI,IAAI,6BAAJ,C;QACI,iBAAiB,gB;QACX,KAAY,MAAK,UAAL,C;;QAElB,UAAU,
KAAV,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAjD,EAA4D,cAA5D,C;;K;;IAaa,kD;MAAoB,QAAC,IAAM,C
AAP,KAAa,IAAM,CAAnB,K;K;IARzC,uC;MACI,sC;QAAiC,OAAjC,yB;;MACA,4BAA4B,K;MAE5B,YAAY,E;
MAGZ,iBAAc,CAAd,UAAsB,GAAtB,U;QAAiC,KAAY,MAAK,KAAL,C;MAC7C,iBAAiB,kC;MACX,KAAY,M
AAK,UAAL,C;MAClB,mBAAc,CAAd,YAAsB,KAAM,OAA5B,Y;QACI,QAAQ,MAAM,UAAQ,CAAR,IAAN,C
;QACR,QAAQ,MAAM,OAAN,C;QACR,IAAI,CAAC,IAAM,CAAP,OAAc,IAAM,CAApB,KAA0B,KAAK,CAA
nC,C;MAAsC,OAAAO,K;;MAEjD,4BAA4B,I;MAC5B,OAAO,I;K;IAIX,2D;MACI,aAAa,gBAAmB,KAAM,OAAz
B,O;MACb,aAAa,YAAU,KAAV,EAAiB,MAAjB,EAAyB,KAAzB,EAAgC,YAAhC,EAA8C,UAA9C,C;;MACb,IA
AI,WAAW,KAAf,C;QACI,aAAAU,KAAV,OAAiB,YAAjB,M;UAA+B,MAAM,CAAN,IAAW,OAAO,CAAP,C;;K;
IAIlD,4D;MAEI,IAAI,UAAS,GAAb,C;QACI,OAAO,K;;MAGX,aAAa,CAAC,QAAQ,GAAR,IAAD,IAAgB,CAA
hB,I;MACb,WAAW,YAAU,KAAV,EAAiB,MAAjB,EAAyB,KAAzB,EAAgC,MAAhC,EAAwC,UAAxC,C;MAC
X,YAAY,YAAU,KAAV,EAAiB,MAAjB,EAAyB,SAAS,CAAT,IAAzB,EAAqC,GAAArC,EAA0C,UAA1C,C;MAE
Z,aAAiB,SAAS,MAAb,GAAqB,KAAArB,GAAgC,M;MAG7C,gBAAgB,K;MAChB,iBAAiB,SAAS,CAAT,I;MACj
B,aAAU,KAAV,OAAiB,GAAjB,M;QAEQ,iBAAAa,MAAb,IAAuB,cAAc,GAArC,C;UACI,gBAAgB,KAAK,SAAL
,C;UAChB,iBAAiB,MAAM,UAAN,C;UAEjB,IAAI,UAAW,SAAAQ,SAAR,EAAmB,UAAnB,CAAX,IAA6C,CAAj
D,C;YACI,OAAO,CAAAP,IAAY,S;QACZ,6B;;YAEA,OAAO,CAAP,IAAY,MAAM,UAAN,C;UACZ,6B;;YAEA,
eAGR,iBAAa,MAAb,C;UACI,OAAO,CAAAP,IAAY,KAAK,SAAL,C;UACZ,6B;;UAGA,OAAO,CAAP,IAAY,MAAM,
UAAN,C;UACZ,+B;;;MAMZ,OAAO,M;K;;ICTP,uC;MAAA,2C;K;2DACI,0B;MAA2D,sBAAU,MAAAV,C;K;K;;IAHtE,mD;MAAA
,kD;QAAA,iC;;MAAA,2C;K;;MC0BA,iC;MAKA,8B;MA6CA,0BAAmE,I;;IAzEnE,kC;MAAA,oB;MAA+B,8C;;K;2CAE3B,mB;MAAA,
2CAE3B,mB;MAAA,oB;MAA+B,8C;;K;uDAAnD,jB;MAAAgE,OAAA,WAAa,uDAAGjB,mB;MAAAgE,O
AAA,WAAa,uBAAc,OAAAd,C;;K;0CAE7E,Y;MAAAwE,OAAA,WAAa,iCAAY,W;;K;qDAEpF,mB;MACI,IAAI,iBAAS,OA
AT,CAAJ,C;QACI,WAAAa,cAAO,OAAAQ,IAAAf,C;;MACA,WAAAa,cAAO,OAAAiAAf,C;K;;ICb,OAAO,I;;MAEX,OAAO,K;K;K;;wFAGY,Y;MAAAQ,OAAA,WAAa,kBAAQ,O
AAAA,WAAa,K;K;;8BA6ChD,Y;MACI,0BAAAY,Q;K;0CAIhB,e;MAAAmD,OAAA,WAAa,0BAAY,gBAAS,GAAT,C;;K;4CAE/D,D;iB;MAAmE,gBAAAZ,0B;MAAAY,c;;QvE+mDnD,D;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAAqC,aAAO,aAAAAO,K;UAAP,e;;QAACB,rB;QAAAhB,OAAAgB,B;K;;;MvE6mDmD,D;QADhB,IAAI,wComDmD,D;QADhB,IAAI,wCAAsB,mBAA1B,

C,6B;MAA3C,O3ENO,S;K;I4EzD6B,uC;MAAC,kC;MAErC,oBAAkC,kB;MAClC,sBAAyB,C;K;2EAHY,Y;MAA
A,8B;K;2FAGrC,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;gDAGA,sB;MACI,eAAe,aAAS,qBAAY,GAAZ,C;MA
CxB,mBAAmB,6BAAsB,QAAtB,C;MACnB,IAAI,oBAAJ,C;QAEI,kBAAW,QAAX,IAAuB,mCAAY,GAAZ,EA
AiB,KAAjB,C;;QAEvB,IAAI,6BAAJ,C;UAEI,YAA+B,Y;UAC/B,IAAI,aAAS,gBAAO,KAAM,IAAb,EAAkB,GA
AlB,CAAb,C;YACI,OAAO,KAAM,gBAAS,KAAT,C;;YAEb,kBAAW,QAAX,IAAuB,CAAQ,KAAR,EAAe,mCA
AY,GAAZ,EAAiB,KAAjB,CAAf,C;YACvB,6B;YACA,OAAO,I;;;UAIX,YAAuC,Y;UACvC,cAAkB,wBAAN,KA
AM,EAAiB,GAAjB,C;UAClB,IAAI,eAAJ,C;YACI,OAAO,OAAM,gBAAS,KAAT,C;;UAEX,KAAY,MAAK,mC
AAY,GAAZ,EAAiB,KAAjB,CAAL,C;;;MAG1B,6B;MAEA,OAAO,I;K;iDAGX,e;MAEuB,Q;MADnB,eAAe,aAA
S,qBAAY,GAAZ,C;MACL,oCAAsB,QAAtB,C;MAAA,iB;QAAmC,OAAO,I;;MAA7D,mBAAmB,I;MACnB,IAA
I,6BAAJ,C;QACI,YAAgC,Y;QAChC,IAAI,aAAS,gBAAO,KAAM,IAAb,EAAkB,GAAlB,CAAb,C;U5BzDR,O4B
0D6B,iB5B1DvB,C4B0DmC,Q5B1DnC,C;U4B2DM,6B;UACA,OAAO,KAAM,M;;UAEb,OAAO,I;;;QAGX,YAA
uC,Y;QACvC,8BAAc,KAAd,iB;UACI,cAAY,MAAM,KAAN,C;UACZ,IAAI,aAAS,gBAAO,GAAP,EAAY,OAA
M,IAAlB,CAAb,C;YACI,IAAI,KAAM,OAAN,KAAc,CAAlB,C;cACU,KAAN,UAA2B,C;c5BtE/C,O4BwEqC,iB5B
BxE/B,C4BwE2C,Q5BxE3C,C;;c4B2EoB,KAAY,QAAO,KAAP,EAAc,CAAd,C;;YAEtB,6B;YAEA,OAAO,OAA
M,M;;;;MAIzB,OAAO,I;K;0CAGX,Y;MACI,oBAAa,kB;MACb,YAAO,C;K;mDAGX,e;MAAyC,uBAAS,GAAT,
S;K;8CAEzC,e;MAA+B,Q;MAAA,+BAAS,GAAT,8B;K;+CAE/B,e;MACuB,Q;MAAA,oCAAsB,aAAS,qBAAY,
GAAZ,CAA/B,C;MAAA,iB;QAAoD,OAAO,I;;MAA9E,mBAAmB,I;MACnB,IAAI,6BAAJ,C;QACI,YAAgC,Y;Q
AChC,IAAI,aAAS,gBAAO,KAAM,IAAb,EAAkB,GAAlB,CAAb,C;UACI,OAAO,K;;UAEP,OAAO,I;;;QAGX,YA
AuC,Y;QACvC,OAAa,wBAAN,KAAM,EAAiB,GAAjB,C;;K;uDAIrB,0B;MACI,sB;;Q7F+nCY,Q;QAAhB,iD;UA
AgB,cAAhB,e;UAAsB,I6F/nCK,aAAS,gB7F+nCA,O6F/nCa,IAAb,M7F+nCd,C;YAAwB,qBAAO,O;YAAP,uB;;;
QAC9C,qBAAO,I;;;M6FhoCH,yB;K;IAIO,8E;MAAA,wD;MACH,aAAY,E;MAEZ,YAA0B,MAAa,MAAK,qCAA
L,C;MACvC,gBAAe,E;MAEf,oBAAA4B,I;MAC5B,eAAc,K;MACd,iBAAgB,E;MACHB,iBAAqC,I;K;yEAErC,Y;
MACI,IAAI,6BAAwB,YAA5B,C;QACI,gBAAqB,iBAAqD,O;QAC1E,IAAI,4DAAc,SAAlB,C;UACI,OAAO,C;;
MAGf,IAAI,yDAAa,SAAK,OAAAtB,C;QACI,oBAAe,2CAAW,UAAK,aAAL,CAAX,C;QACf,eAAU,iC;QACV,iB
AAY,C;QACZ,OAAO,C;;;QAEP,oB;MACZ,OAAO,eAAS,C;K;gEAGpB,Y;MAEoB,Q;MADhB,IAAI,CAAC,cAAL,
C;QAAgB,MAAM,6B;MACN,IAAI,YAAJ,C;QACZ,yBAAAqD,cAAArD,C;;QAEa,OAAb,iB;;MAHJ,oB;MAKA,iBA
AiB,S;MACjB,aAAAQ,E;MACR,OAAAR,S;K;kEAGX,Y;M/E/CR,I+EgDyB,c/EhDrB,QAAJ,C;QACI,cAhByB,0B;QAiB
zB,MAAM,6BAAsB,OAAQ,WAA9B,C;;M+EjByB,8B;K;M+E+CE,6BAAYB,cAAO,6BAAY,IAAnB,C;MACzB,iBA
AAY,I;MAEZ,uC;K;;6CAtDZ,Y;MAEI,2D;K;4DAyDJ,oB;MACI,mBAAmB,kBAAW,QAAX,C;MACnB,OAAAW,i
BAAiB,SAArB,GAAgC,IAAhC,GAA0C,Y;K;;;;wCCtKrD,Y;MACI,aAAR,MAAM,OAAAe,CAAP,IAAO,C;MAEb,OA
AO,KAAP,IAAgB,C;M7BXpB,O6BYqB,M7BZf,C6BYuB,K7BZvB,C;M6B6BaF,OAAO,M;K;;ICNuB,qC;MAAC,kC;M
AEnC,oBAAAkC,kB;MAClC,sBAAAyB,C;K;yEAHU,Y;MAAA,8B;K;yFAGnC,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;iD
AWA,e;MACI,IAAI,0BAAAJ,C;QAAoB,OAAAOAAB,C;QAAAoB,OAAAO,K;MAC3B,OAAAkBAAW,GAAX,MAAoB,S;
K;4CAG/B,e;MACI,IAAI,0BAAAJ,C;QAAoB,OAAAO,I;MAC3B,YAAY,kBAAW,GAAX,C;MACZ,OAAAW,OAAW,UA
AU,SAArB,GAAgC,KAAhC,GAAwC,I;K;8CAGpE,Y;MACI,oB;MACZ,OAAO,S;K;4CAGX,Y;MACI,iBAAAJ,nC;K;iD

EiFWQ,uBjFXR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,6BAAsB,OAAQ,WAA9B,C;;MiFFUN,eAAe,kBAAW,GAAX,C
;MACf,kBAAW,GAAX,IAAkB,K;MAClB,OAAAElB,IAAI,aAAAAa,SAAAjB,C;K;;Mi FUN,eAAe,kBAAW,GAAX,IAAkB,K;M
AElB,IAAI,aAAAAa,SAAAjB,C;QACI,6B;;QAEA,OAAO,I;K;iDAGX,Y;MACI,oB;MACZ,OAAO,Q;K;;K;+CAIf,e;MACI,I
AAI,0BAAAJ,C;QAAoB,OAAAO,I;MAC3B,YAAY,kBAAW,GAAX,C;MACZ,OAAAW,OAAW,UAAU,SAArB,GAAgC,KAAh
C,GAAwC,I;K;;C9BnDJ,O8BoDoByB,iB9BpDpB,C8B9BoD,yB+B,G9BpBd,B/B,C;Q8BqBqDE,6B;MACxB,OAAAElB,IAAI,a
AAAa,SAAAjB,C;;K;;K;wCAKf,Y;MACI,oBAAAa,kB;MACb,YAAO,C;K;IAKA,0E;MAAA,oD;MACH,aAAY,E;MAC7B,cAA
AkC,M;MAAAa,MAAAK,mC;K;;K;IAKA,0E;MAAA,oD;MACH,aAAY,E;MAC7B,YAAY,kBAAW,GAAX,IAAkB,K;MAClB,IA
AK,0BAAAJ,C;QAAoB,OAAAZU,I;MAC3B,YAAAAa,MAAAK,mC;K;;C9BnDJ,O8BoDoAGB,iB9BpDpB,C8B9BoDE,yB+B,G9Bp
Bd,B/B,C;Q8BqBqDE,6B;MACxB,OAAAElB,IAAI,aAAAa,SAAAjB,C;K;iDAKf,Y;MACH,iBAAgB,E;MAEZ,oBAAAa,nC;K;i
DAKf,e;MACI,IAAI,0BAAAJ,C;QAAoB,OAAAO,I;MAC3B,YAAY,kBAAW,GAAX,C;MACZ,OAAAW,OAAW,UAAU,SAArB,G
AAgC,KAAhC,GAAwC,I;K;IAKA,0E;MAAA,oD;MACH,aAAY,E;MAC7B,YAAY,kBAAW,GAAX,IAAkB,K;MAClB,IAAK,0BA
AAJ,C;QAAoB,OAAAZU,I;MAC3B,YAAAAa,MAAAK,mC;K;;K;gDAIf,e;MACI,IAAI,0BAAAJ,C;QAAoB,OAAAO,I;MAC3B,Y
AAY,kBAAW,GAAX,C;MACZ,OAAAW,OAAW,UAAU,SAArB,GAAgC,KAAhC,GAAwC,I;K;;K;iDAIf,Y;MACH,iBAAgB,E;M
AEZ,oBAAAa,nC;K;;K;iDAIf,e;MACI,IAAAqBkD,0F;MAAA,8B;MAAA,oD;MAAAkHAC9B,Y;MAAAQ,uB;K;oHACN,Y;MAAAQ,
6CAAuB,gBAAAvB,C;K;2EAAE9B,oB;MAAAwC,OAAAA,2BAAAuB,aAAAI,gBAAAJ,EAAAS,QAAAT,C;K;qEAAE/D,Y;MAA+B,OA
AAA,mCAAAY,uBAAAc,IAAAd,C;K;qEAAE9C,Y;MAAAkC,mEAAAC9C,iB;K;;;MCItD,sBAAOsC,I;MA6CtC,yB;MA

OA,4BAAkC,K;;IArIE,sD;MAZpC,oB;MAYyD,0CAAqC,GAArC,EAA0C,KAA1C,C;MACrD,oBAAuC,I;MACv
C,oBAAuC,I;K;wDAEvC,oB;MACI,WAAmB,iB;MACnB,OAAa,mEAAS,QAAT,C;K;;IAIrB,wC;MAAA,oB;MA
A+B,8C;K;IAE3B,sD;MAAA,oB;MACI,cACsC,I;MAEtC,cACsC,I;MAGlC,cAAO,iC;K;6DAIX,Y;MACI,OAAO,
gBAAS,I;K;0DAGpB,Y;MAEI,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MAEtB,cAAc,0B;MACd,cAAO,O;MA
Ca,gBAAb,OAAQ,a;;MAAf,c/E0DS,S+E1DoB,KAAO,iC/E0DzC,GAAqB,SAArB,GAA+B,I;M+EzD1B,OAAO,O
;K;4DAGX,Y;MlFwBR,IAAI,EkFvBc,eAAQ,IlFuBtB,CAAJ,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,W
AA9B,C;;MkFxBE,WAAc,iB;MAGP,oCAAP,0BAAO,C;MACP,gCAAI,cAAO,0BAAO,IAAd,C;MAEJ,cAAO,I;K
;;iDAIf,mB;MAAyD,MAAM,qCAA8B,iCAA9B,C;K;6CAC/D,Y;MACI,WAAmB,Q;K;6DAGvB,mB;MAAgE,OA
AA,WAAmB,uBAAc,OAAd,C;K;gDAEnF,Y;MAAwE,qD;K;2DAExE,mB;MACI,qB;MACA,IAAI,iBAAS,OAAT
,CAAJ,C;QACI,WAAmB,cAAO,OAAQ,IAAf,C;QACnB,OAAO,I;;MAEX,OAAO,K;K;8FAGY,Y;MAAQ,OAAA
,WAAmB,K;K;sDAElD,Y;MAAsC,WAAmB,iB;K;;iDAa7D,qB;MlFrBA,IAAI,EkF0BM,0BAAQ,IAAR,IAAgb,0
BAAQ,IlF1B9B,CAAJ,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;;MkF0BN,YAAY,mB;MAC
Z,IAAI,SAAS,IAAb,C;QACI,sBAAO,S;QACP,yBAAO,S;QACP,yBAAO,S;;QAGK,YAAa,KAAM,a;QlFlBhC,uB
;QAeP,IAfoB,KAehB,QAAJ,C;UACI,gBAhByB,0B;UAiBzB,MAAM,6BAAsB,SAAQ,WAA9B,C;;UAEN,sBAnB
gB,K;;;QkFlBZ,QkFkBZ,eAAQ,K;QACP,yBAAO,K;QACP,yBAAO,K;QAEP,qBAAa,S;QACb,qBAAa,S;;K;+CA
IrB,qB;MAII,IAAI,SAAK,aAAL,KAAc,SAAlB,C;QAEI,sBAAO,I;;QAEP,IAAI,wBAAS,SAAb,C;UAEI,sBAAO,I;;
QAEP,IAAI,iB;MAElB,yBAAO,I;MACP,yBAAO,I;K;;oCA8CX,Y;MAEI,qB;MACA,4BAAa,I;MACb,OAAO,I;K;
oCAGX,Y;MACI,qB;MACA,kBAAI,Q;MACJ,sBAAO,I;K;gDASX,e;MAAmD,OAAA,kBAAI,mBAA
Y,GAAAZ,C;K;kDAEvD,iB;MACiC,Q;MAAA,0B;MAAA,iB;QAAQ,OAAO,K;;MAA5C,WAAA6B,I;;QAAEzB,IAA
I,OAAA,IAAK,MAAL,EAAc,KAAAd,CAAJ,C;UAAoB,OAAO,I;;MAA5C,WAAA6B,I;;QAAEzB,IAAI,OAAA,IAA
K,MAAL,EAAc,KAAAd,CAAJ,C;UAAoB,OAAO,I;;MAAOOAAOs,IAAK,MAAL,EAAc,KAAAd,C;UAAoB,OAA
O,I;MAAK,OAAA,IAAK,mBAAY,GAAAZ,C;K;oCA8CX,Y;MAEI,qB;MAJ3B,OAAA,kBAAI,mBAAY,GAAAZ,C;K
;oCA8CX,Y;MAEI,qB;K;;IAIrB,8B;MAEoC,qB;MAJ3B,iDAAChC,mB;MAACI,OAAAQ,KAAAI,OAAAJ,C;K;mD
AGZ,mB;MACI,OAAAQ,KAAAI,OAAAJ,C;K;2CAGZ,Y;MACI,OAAAQ,KAAAI,EAAAJ,C;K;;IAIhB,0B;MAEqC,q
B;MACjC,cAAa,E;K;6CAEb,mB;MACI,eAoCyC,OApCxB,OAAoCwB,C;K;qCAjC7C,Y;MACI,cAAAS,E;K;;IAI
jB,sC;MAE4C,yB;MACxC,mB;MACI,QAAwByC,OAAxB1B,B;MACA,OAAwB0B0C,B;MAArvBzC,QAAAQ,CxEq
JoF,awErJhE,IxEqJgE,IxEqJ1D,CxEqJ0D,C;MwEpJ5F,IAAI,KAAAK,CAAAT,C;QACI,4BAAU,CxE+I+0E,WwE/
I/0D,J9D,CxE+I+8D,EwE/I/0D,J8D,EwE/I/0D,J3D,CxE+I+8D,J2D,C;MwE9I5F,QwE9IA,IxE8IgE,IxE8I1D,CxE8I0D,C
;QwE7I5F,QAAA,IAAKC,EAAAIxE0JoF,Y;MwEzJ5F,WAAA,IAAAC,CAAAIxE0JoJ,Y;K;;MwEzJ5FxE0JiE,WwExJ1
jrD,IAAAI,CAAAJ,IxExJ0JqD,C;K;;MwExJ5F,4BAAU,CxExJ1jzE,Cx;K;iDAGd,Y;MACI,OAAAQ,KAAQ,KAAI,W
AAJ,C;MA
CR,cAAS,E;K;;;IAWjB,yB;MACiD,cAAa,KAAb,C;K;;IAEjD,mB;MAEI,MAAO,U;K;IAGX,4B;MAEI,MAAO,iB
AAQ,OAAAR,C;K;IAGX,kB;MACqC,MAAM,qCAAAa8B,sCAAAA9B,C;K;IAE3C,wB;MAC4C,MAAMAAM,qCAA
8B,4CAA9B,C;K;IClGlD,mD;MACI,0B;MASA,gBAAAA2B,a;K;2FAFvB,Y;M

AAQ,OAAA,eAAS,Q;K;oDAIrB,kB;MACI,UAAU,IAAK,S;MAEX,YAAQ,2CAAR,C;QACI,gBAAc,MAAO,M;
WAEzB,YAAQ,yBAAR,C;QACI,gBAAc,yC;QACd,eAAS,oBAAW,MAAX,C;;QAEL,MAAM,6BAAsB,iBAAtB,
C;K;4CAItB,Y;MAOW,Q;MALP,IAAI,kBAAW,2CAAf,C;QACI,gBAAS,yB;QACT,OAAO,yB;;MAEX,aAAa,IA
AK,S;MAEd,eAAW,yCAAX,C;QAAsB,gC;WACtB,0C;QAA4B,MAAM,MAAO,U;;QACjC,a;MAHZ,W;K;;IA7B
J,gD;MAAA,0D;MACyD,6BAAK,QAAL,EAAe,2CAAf,C;MADzD,Y;K;;;;;ICRA,2C;MAAA,+D;MAAuB,iC;MA
F3B,iC;MAEI,Y;K;IACA,sD;MAAA,+D;MAAuC,6BAAM,OAAN,Q;MAH3C,iC;MAGI,Y;K;IACA,6D;MAAA,+
D;MAAmD,kCAAM,OAAN,EAAe,KAAf,C;MAJvD,iC;MAII,Y;K;IACA,oD;MAAA,+D;MAAuC,6BAAiC,6BAAM,KAA
N,Q;MALrC,iC;MAKI,Y;K;IxC4CJ,yE;MASI,sC;MAAA,4C;K;IATJ,iGAWY,Y;MAAQ,2B;KAXpB,E;IAAA,0D
AaQ,kB;MACI,wBAAW,MAAX,C;K;IAdZ,sF;IyC5C2E,0C;M1CkKhE,Q;MADP,e0ChKA,M1CgKA,C;MACO,Q
0CjKP,M1CiKO,+D;M0ChKX,W;K;;+FCuHA,gB;MACI,aAAa,IAAb,MAAa,E;MACb,KAAK,MAAL,C;MACA,
OAAO,M;K;wFC3HX,yB;MAAA,uD;MAAA,wC;QAWqG,OAAK,cAAL,SAAK,EAAiB,IAAjB,EAAuB,IAAvB,
C;O;KAX1G,C;wFAaA,yB;MAAA,uD;MAAA,wC;QAWoG,OAAK,cAAL,SAAK,EAAiB,IAAjB,EAAuB,IAAvB,
C;O;KAXzG,C;8ECbA,yB;MAAA,6C;MAAA,sC;QAOyD,OAAK,SAAL,SAAK,EAAAY,QAAAZ,C;O;KAP9D,C;8E
ASA,yB;MAAA,6C;MAAA,wC;QAWkE,OAAK,SAAL,SAAK,EAAa,UAAb,S;O;KAXvE,C;oFAaA,yB;MAAA,
mD;MAAA,wC;QAWqE,OAAK,YAAL,SAAK,EAAgB,UAAhB,S;O;KAX1E,C;kFCZI,yB;MAAA,iD;MAAA,4B;
QAAe,OAAK,WAAL,SAAK,C;O;KAApB,C;wFAYA,yB;MAAA,uD;MAAA,4B;QAAe,OAAK,cAAL,SAAK,C;O
;KAApB,C;IC5BJ,gC;MAAoE,gCAAqB,OAArB,C;K;IAElC,uC;MAAC,wB;K;iDAC/B,iB;MACI,eAAQ,KAAR,C
;K;8CAGJ,Y;MAAyC,iCAAuB,cAAvB,M;K;;ICCO,6C;MAAA,8B;MAAS,uB;K;8FAClC,Y;MAAQ,OAAA,gBA
AY,O;K;mDAE3C,iB;MACI,IADoC,KACpC,IAAG,CAAH,IADoC,KACpC,IAAM,sBAAN,C;QAD8B,OACX,gB
AAY,MAAK,KAAL,C;;QACvB,MAAM,8BAA0B,WAAQ,KAAR,6BAAmC,sBAAnC,MAA1B,C;K;;IARtB,8B;
MAGoD,4C;K;wECFpD,yB;MAAA,uC;MAAA,4B;QAOsC,MAAL,SAAK,C;O;KAPtC,C;kFASA,yB;MAAA,iD;
MAAA,kC;QAWuD,OAAK,WAAL,SAAK,EAAc,IAAd,C;O;KAX5D,C;+ECfA,qB;MAI8C,gB;K;iFAE9C,qB;M
AIsE,OAAK,S;K;kFAE3E,qB;MAMyE,6B;MAiBa,UAPF,M;MAFP,QAAc,S;MAGV,cAAK,UAAL,U;Q;QACI,mBAAK,UAAL,G;;QACJ,I/CzBqC,MAAAa,Y+CyBzB,C/CzBuC,C/CzBuC,C+CyBzB,C+CzBlD,C;QAC6B,
C;;UAGN,UAAlB,uDAAkB,Y;;MAP3B,a;K;IC9BJ,2B;MAEI,MAAM,yBAAqB,OAArB,C;K;IAGV,sB;MAEI,M
AAM,uBAAmB,cAAnB,C;K;IAGV,2B;MAEI,MAAM,6BAAsB,OAAtB,C;K;IAGV,iC;MAEI,MAAM,4CAAqC,u
BAAqB,YAArB,8BAAqC,C;K;IClBV,8B;MC8CW,kB1GqBiD,oB;M0GM9C,Q;MAAA,OAAK,0B;MAAf,OAAAU,
cAAV,C;QAAAU,mB;QACN,UAAU,sBAAAM,CAAN,UAAU,sBAAAY,GAAAZ,C;QACV,kBAAAkB,sBAAAkB,sBAAAkB,GAAAZ,C;Q;QAkJFiD,GDpJrC,CC
oJqC,GAA6B,UAjFjC,WAiFiC,iC;6DDpJnD,IAAM,CAAN,IzG0OpB,C;;MyG1OA,OCqEO,W;K;IC3EqC,gD;MAAC
,oC;K;;;;;IC0CjD,qB;MAK0B,Q;MADtB,UAAAmB,oBAAAmB,E;MACA,McAAAsB,wbAAAkB,KAAAtB,gB;QAAAsB,aAAA,aAAA,KAAAtB,M;QAA
AK,IAAC,0BAAAD,EAAAA,O;QACAD,EAAAO,2B;QACAD,IAAAA,IAAAA,IAAAA,Y,K;;MAEhB,OAAO,G;K;IAGX,+B;MAMgB,Q;MADZ,W
AA0B,MAAAa,MAAAK,KAAAL,C;MACvC,wBAAAY,IAAAZ,gB;QAAAY,aAAA,UAAAZ,M;QAAAK,IAAC,0BAAAA,EAAAA,O;Q;;MAGpB,OAAO,S;K;qEC5BX,yB;MAAA,gC;MAAA,yB;QAAA,uB;QAAA,4B;QAAA,oC;;MAEd,GAAf,CAAAtB,C;K;IC0CI,UAAC,UAAK,GAAAL,IAAAY,MAAAM,GAAAN,C;;;MAGpB,OAAAAD,EAAAO,2B;K;IAOA,gC;M.ALM,oC;K;;IC3BJ,yB;;MAAA,iB;M
AAA,oB;QAAOkD,OAAAA,MAAW,KAAI,CAAAJ,C;O;IC;O;KAP7D,C;qEASA,yB;MAAA,iB;MAAA,oB;QAAOmD,OAAAA,MAAW,MAAK,KAAL,C;O;KAApB,C;qEASA,yB;MAAA,iB;MAAA,oB;QAAOoD,OAAAA,MAAW,MAAK,KAAL,C;O;KAApB,C;uEASA,yB;MAAA,iB;MAAA,uB;QAAOqD,OAAAA,MAAW,OAAM,OAAM,CAAAN,C;O;KAAK,C;O;KAT9D,C;uEAWA,yB;MAAA,iB;MAAA,oB;QAAOsD,OAAAA,MAAW,OAAK,KAAL,C;O;KAApB,C;yEAWA,yB;MAAA,iB;MAAA,oB;QAAOuD,OAAAA,MAAW,QAAK,CAAAR,C;O;KAT5B,C;yEAWA,yB;MAAA,iB;MAAA,uB;QAAOwD,OAAAA,MAAW,QAAO,OAAO,KAAM,CAAAN,C;O;KAAK,C;O;KAT5B,C;yEAWA,yB;MAAA,iB;MAAA,uB;QAAOyD,OAAAA,MAAW,QAAO,OAAM,CAAAN,C;O;KAAK,C;O;KAT5B,C;IAgBA,gC;M.ALM,oC;K;IAgBA,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAOA,yB;MAclB,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAgBd,aAAa,kBAAAAD,IAAAI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAG
pB,OAAAAD,EAAAO,2B;K;IAgBd,aAAa,kBAAAAD,IAAAI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAcd,uEAAWA,yB;MAAA,iB;MAAA,oB;QAAOA,OAAAA,MAAW,MAAMK,MAAAK,KAAAL,C;O;KAAB,C;O;;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAgBd,aAAa,kBAAAAD,IAAAI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAcd,yEAAWA,yB;MAAA,iB;MAAA,uB;QAAOA,OAAAA,MAAW,OAAMK,MAAAK,KAAAL,C;O;KAAB,C;O;;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAgBd,aAAa,kBAAAAD,IAAAI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAcd,yEAAWA,yB;MAAA,iB;MAAA,uB;QAAOA,OAAAA,MAAW,QAAOK,MAAAK,KAAAL,C;O;KAAB,C;O;;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAcd,uEAAWA,yB;MAAA,iB;MAAA,oB;QAAOA,OAAAA,MAAW,MAAMK,MAAAK,KAAAL,C;O;KAAB,C;O;IAgBA,sB;MAcI,IAgBBAgBA,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAG
pB,OAAAAD,EAAAO,2B;K;IAgBd,IAgBAc,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAcI,IAgBAd,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;IAgBBA,IAgAAgBA,sB;MAcI,IAgBBAcIAgBA,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAgBAgBA,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAgBd,IAgAAgBA,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2B;K;IAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2b;K;IAgBBA IAgBAc,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;IAgBAc,IAgBAgBA,sB;MAcI,IAgBBAc,sB;MAcI,IAAgI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;IAgBAc,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2b;K;IAgBAc IAgBAgBA,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2b;K;IAgBd,IAgBAc,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;IAgBAc,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2b;IAgBBA IAAgI,QAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;IAgBBAcIAgBA,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2b;K;IAgBd,IAgBAc,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;IAgBBAcIAAgI,QAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;IAgBBA,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2b;IAgBBAcIAgBA,sB;MAcI,IAgBBAsb;MAAcI,IAAAA,sB;MAAgI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;IAgBAcIAgBA,sB;MAcI,IAAgI,sB;MAAcI,IAAAA,sB;MAAgI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;IAgBAcIAgBA,sB;MAAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2b;K;IAgBBA IAAgI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;IAgBBAcIAgI,sB;MAAcI,IAAAA,sB;MAAgI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;IAgBAcIAgBA,sB;MAcI,IAAgI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2b;IAgBBAcIAgBA,sB;MAcI,IAAgI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;IAgBAcIAgBA,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2b;IAAgI,QAAAMcI,IAgI,sB;MAAcI,IAAAA,sB;MAgBI,QAAAQ,GAAAR,IAAAe,MAAAM,GAAAN,C;O;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;IAgBAc,IAgBAgBA,sB;MAcI,IAgBBA,IAAAA,QAAAA,GAAAR,IAAAe,MAAAM,GAAAN,C;O;;MAGpB,OAAAAD,EAAAO,2b;IAAgI,QAAAMc

SAAQ,GAA3B,C;QAAgC,OAAO,wCAAO,I;MAC9C,OAAO,IAAW,KAAI,CAAJ,CAAX,GAAoB,IAAW,KAAI,IAAJ,C;K;mEAG1C,yB;MAAA,iB;MAAA,oB;QAWiD,OAAA,MAAW,KAAI,CAAJ,C;O;KAX5D,C;yEAaA,yB;MAAA,iB;MAAA,oB;QAOoD,OAAA,MAAW,OAAM,CAAN,C;O;KAP/D,C;uEASA,yB;MAAA,iB;MAAA,oB;QAOmD,OAAA,MAAW,MAAK,CAAL,C;O;KAP9D,C;uEASA,yB;MAAA,iB;MAAA,oB;QAgBmD,OAAA,MAAW,OAAM,CAAN,C;O;KAhB9D,C;uEAkBA,yB;MAAA,iB;MAAA,oB;QAUmD,OAAA,MAAW,MAAK,CAAL,C;O;KAV9D,C;yEAYA,yB;MAAA,iB;MAAA,oB;QAUoD,OAAA,MAAW,OAAM,CAAN,C;O;KAV/D,C;+EAYA,yB;MAAA,iB;MAAA,oB;QAUuD,OAAA,MAAW,OAAM,CAAN,C;O;KAVlE,C;IAYA,kB;MAQI,IAAI,IAAI,GAAJ,KAAW,GAAf,C;QACI,OAAO,IAAW,OAAM,CAAN,C;;MAEtB,YAzBgD,MAAW,OAyBzC,CAzByC,C;MA0B3D,OAAW,QAAQ,CAAR,KAAa,GAAxB,GAA6B,KAAA7B,GAAtC,GACH,MAAW,MAsCb,CAtCa,C;K;qEAyC9D,yB;MAAA,iB;MAAA,oB;QAUkD,OAAA,MAAW,KAAI,CAAJ,CAAJ,C;O;KAV7D,C;uEAYA,yB;MAAA,iB;MAAA,oB;QAWmD,OAAA,MAAW,MAAK,CAAL,C;O;KAX9D,C;wEAcA,yB;MAAA,iB;MAAA,uB;QAO6D,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAPxE,C;wEASA,yB;MAAA,iB;MAAA,uB;QAO6D,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAPxE,C;qEAWA,yB;MAAA,iB;MAAA,+B;QAayD,OAAA,MAAW,KAAI,SAAJ,EAAU,CAAV,C;O;KAbpE,C;uEAeA,yB;MAAA,iB;MAAA,+B;QAOsD,OAAA,MAAW,KAAI,SAAJ,EAAY,CAAZ,C;O;KAPjE,C;iGAmBsD,yB;MAAA,iB;MAAA,4B;QAAQ,OAAA,MAAW,KAAI,SAAJ,C;O;KAAnB,C;+EAaT,yB;MAAA,iB;MAAA,4B;QAAQ,OAAA,MAAW,MAAK,SAAL,C;O;KAAnB,C;iFAE7C,yB;MAAA,6C;yB;MAAA,6C;MAAA,kC;QAK8D,OAAA,MAAW,KAAI,SAAJ,EAAU,CAAV,C;O;KAL/E,C;iFAE7C,yB;MAAA,6C;yB;MAAA,6C;MAAA,kC;QAK8D,OAAA,MAAW,MAAK,SAAL,EAAW,CAAX,C;O;KALzE,C;wECpB6C,QADyC,OACrB,OAAA,MAAW,SAAK,CAAL,C;yBAAA,MAAW,OAAK,CAAL,C;IAAgB,cAAAQ,QAAQ,wCAAO,kBAA/B,C;QAFyC,OAEzC,S;WACpB,kBAAAQ,wCAAO,UAAf,C;QAHyC,OAGzC,OAAAGb,OAAGb,YAAY,SAAL,SAAK,C;;QAHyC,OAIhD,OAAAQ,QAAO,IAA5B,SAAK,CAAL,GAAAgB,S;;K;IAG5B,2B;MAKI,IAAK,IAAAgB,QAAQ,wCAAO,kBAAf,C;QAD2C,OAC3C,S;WACA,kBAAAQ,wCAAO,UAAf,GAAAR,R;QAF2C,OAEhD,OAAAGb,YAAY,SAAL,SAAK,C;;QAFyC,OAGhD,OAAAQ,QAAO,IAA5B,SAAK,CAAL,GAAAgB,S;K;IAG5B,2B;MAKI,IAAAgB,QAAQ,wCAAO,I;WAAfQ,WAAAc,UAAAL,SAAK,CAAL,GAAAyBAAuB,YAAO,CAAAX,GAAAc,EAAAd,GAAAsB,CAAAzC,E;QAHkB,OAG3C,OjDhB6B,Oj;QAHkB,OAIhD,OAAAgB,OjDD1b2B,MAAAa,gBAAAe,IAAAf,C;;K;IAIjC,MAUI,IAAAgB,QAAQ,wCAAO,I;WAAfQ,WAAAc,UAAAL,SAAK,CAAL,GAAyBAAuB,YAAO,CAAAX,GAAAc,EAAAd,GAAAiB,CAAAzC,E;QAHkB,OAG3C,OjDhB6B,Oj;QAHkB,OAIhD,OAAAgB,OjDD1b2B,MAAAa,gBAAAe,IAAAf,C;K;IAIjC,MAUI,IAAAgB,QAAAAH,EAAAG,CAAAAnB,C;QADuD,OACzC,O;QAFuC,OAGhD,OAAAgB,OAAGrC,wCAAO,I;WACrC,WAAAc,SAAK,SAAL,C;QAHuD,OAGvC,O;QAHuC,OAIhD,OAAAgB,OAAGrC,wCAAO,U;K;IAIjC,iB;MAYI,GAAG,wCAAO,I;WAAfQ,WAAAc,SAAK,CAAL,C;QAF2C,OAE3C,O;QAHuC,OAIvC,OAAAgB,OAAGrC,wCAAO,I;WACrC,WAAAc,SAAK,SAAL,C;QAHuD,OAGvC,O;QAHuC,OAIhD,OAAAgB,OAAGrC,wCAAO,U;K;qEASnC,yB;MAYI,uB;QAAW,MAAAM,gCAAAyB,uB;O;MAAA,yB;yBAAAzB,gBAAAzB,C;uB;QAAA,kB;QAAA,oD;QAAA,4C;QAAA,gD;QAAA,oD;QAAA,+C;QAAA,wC;QAAA,gD;QAAA,oD;QAAA,mC;QAAA,2C;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,wC;QAAA,gD;QAAA,oD;QAAA,mC;QAAA,2C;QAAA,8C;QAAA,oD;QAAA,mC;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,8C;QAAA,oD;QAAA,wC;QAAA,gD;QAAA,oD;QAAA,+C;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,8C;QAAA,oD;QAAA,mC;QAAA,2C;QAAA,wC;QAAA,gD;QAAA,mC;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,+C;QAAA,oD;QAAA,mC;QAAA,2C;QAAA,wC;QAAA,gD;QAAA,oD;QAAA,4C;QAAA,oB;MAYI,uB;QAAW,MAAAM,gCAAAyB,uB;O;MAAA,yB;yBAAAzB,gBAAAoD,C;uB;QAAA,kB;QAAA,oD;QAAA,4C;QAAA,gD;QAAA,oD;QAAA,4C;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,8C;QAAA,oD;QAAA,wC;QAAA,gD;QAAA,oD;QAAA,+C;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,+C;QAAA,oD;QAAA,mC;QAAA,2C;QAAA,wC;QAAA,gD;QAAA,mC;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,8C;QAAA,oD;QAAA,mC;QAAA,2C;QAAA,8C;QAAA,oD;QAAA,mC;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,+C;QAAA,oD;QAAA,mC;QAAA,2C;QAAA,wC;QAAA,gD;QAAA,oD;QAAA,4C;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,8C;QAAA,oD;QAAA,wC;QAAA,gD;QAAA,oD;QAAA,+C;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,+C;QAAA,oD;QAAA,mC;QAAA,2C;QAAA,wC;QAAA,gD;QAAA,mC;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,8C;QAAA,oD;QAAA,mC;QAAA,2C;QAAA,8C;QAAA,oD;QAAA,mC;QAAA,oB;QAAA,+C;QAAA,kD;QAAA,+C;QAAA,oD;QAAA,mC;QAAA,2C;QAAA,wC;QAAA,gD;QAAA,oD;QAAA,4C;QAAA,oB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,SAAK,CAAL,C;O;KAdxC,C;yEAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;2EAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;2EAAA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;yEAgBA,yB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;yEAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;2EAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;6EAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;2EAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;+EAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6C,OAAA,MAAmC,IAA7B,CAA6B,EAAAZ,IAAAY,C;O;KAdhG,C;qEAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;yEAgBA,yB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;yEAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAP/E,C;yEASA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;2EAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6C,OAAA,MAAmC,IAA7B,CAA6B,EAAAZ,IAAAY,C;O;KAdhG,C;qEAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAPjF,C;yEASA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;2EAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6C,OAAA,MAAmC,IAA7B,CAA6B,EAAAZ,IAAAY,C;O;KAdhG,C;qEAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;yEAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6C,OAAA,MAmC,IAA7B,CAA6B,EAAAZ,IAAAY,C;O;KAdhG,C;qEAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;2EAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6C,OAAA,MAmC,IAA7B,CAA6B,EAAAZ,IAAAY,C;O;KAdhG,C;qEAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;2EAgBA,yB;MAAA,iB;MAAA,uB;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KAdxC,C;2EAgBA,yB;MAAA,iB;MAAA,mC;MAAA,0B;QAc6B,OAAA,MAAW,OAAK,CAAL,C;O;KKA

hBhF,C;yEAkBA,yB;MAAA,iB;MAAA,oB;QAUiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAV/E,C;2EAYA,yB;M
AAA,iB;MAAA,oB;QAUkD,OAAA,MAA+B,OAAZ,CAAY,C;O;KAVjF,C;iFAYA,yB;MA3gBA,iB;MA2gBA,o
B;QAUqD,OA3gBE,MAAW,OA2gBF,CA3gBE,C;O;KAigBlE,C;2EAYA,yB;MAAA,uC;MAAA,oB;QAQkD,OA
AoB,MAAZ,CAAY,C;O;KARtE,C;uEAWA,yB;MAAA,iB;MAAA,oB;QAUgD,OAAA,MAA6B,KAAZ,CAAY,C;
O;KAV7E,C;yEAYA,yB;MAAA,iB;MAAA,oB;QAWiD,OAAA,MAA8B,MAAZ,CAAY,C;O;KAX/E,C;wEAeA,y
B;MAAA,iB;MAAA,uB;QAO0D,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAPrE,C;wEASA,yB;MAAA,i
B;MAAA,uB;QAO0D,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAPrE,C;sEAYA,yB;MAAA,iB;MAAA,+
B;QAAsD,OAAA,MAA8C,KAA1B,SAA0B,EAAZ,CAAY,C;O;KAbpG,C;uEAeA,yB;MAAA,iB;MAAA,+B;QAO
oD,OAAA,MAA8C,KAA1B,SAA0B,EAAZ,CAAY,C;O;KAPlG,C;kGAmBoD,yB;MAAA,iB;MAAA,4B;QAAQ,
OAAA,MAAgC,KAAZ,SAAY,C;O;KAAxC,C;gFAaT,yB;MAAA,iB;MAAA,4B;QAAQ,OAAA,MAAiC,MAAZ,S
AAY,C;O;KAAzC,C;gFAE3C,yB;MAAA,6C;MAAA,kC;QAO8D,OAA0C,SAArC,SAAqC,EAAZ,IAAY,C;O;KA
PxG,C;iFASA,yB;MAAA,6C;MAAA,kC;QAK4D,OAA0C,SAArC,SAAqC,EAAZ,IAAY,C;O;KALtG,C;oFAQA,y
B;MAAA,iD;MAAA,4B;QAYmD,OAAW,WAAX,SAAW,C;O;KAZ9D,C;sFAcA,yB;MAAA,mD;MAAA,4B;QA
YqD,OAAW,YAAX,SAAW,C;O;KAZhE,C;IAoBA,kB;MAUqC,OAAI,IAAI,CAAR,GAAY,CAAC,CAAD,OAA
M,CAAlB,GAAA0B,C;K;wEAE/D,yB;MAAA,iB;MAAA,uB;QAKoD,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,
C;O;KAL/D,C;wEAEOA,yB;MAAA,iB;MAAA,uB;QAKoD,OAAA,MAAW,KAAI,CAAJ,EAAO,CAAP,C;O;KAL/
D,C;mGAiBgD,yB;MAAA,mC;MAAA,4B;QAAQ,WAAI,SAAJ,C;O;KAAR,C;IAShB,+B;MAC5B,gBAAO,CAA
P,C;QADoC,OACxB,E;WACZ,gBAAO,CAAP,C;QAFoC,OAExB,E;C;;QAFwB,OAG5B,C;K;IAKZ,kB;MASuC,OA
AI,eAAI,CAAR,GAAY,CAAD,aAAX,GAAAmB,C;K;wEAE1D,gB;MAKuD,OAAI,kBAAK,CAAL,MAAJ,GAAY,
CAAZ,GAAAmB,C;K;wEAE1E,gB;MAKuD,OAAI,kBAAK,CAAL,MAAJ,GAAY,CAAZ,GAAAmB,C;K;mGAYxB,
yB;MAAA,mC;MAAA,4B;QAAQ,WAAI,SAAJ,C;O;KAAR,C;IASjB,+B;MAC7B,2BAAO,CAAP,C;QADqC,OACzC,OA
CzB,E;WACZ,2BAAO,CAAP,C;QAFyC,OAEzB,E;C;;QAFyB,OAG7B,C;K;IC1kCZ,4B;MAI4C,qBAAQ,S;K;IAEp
D,4B;MAI2C,qBAAQ,S;K;IAEnD,+B;MAGiD,qBAAQ,wCAAO,kBAAf,IAAoC,cAAQ,wCAAO,kB;K;IAEpG,iC;
MAGgD,qBAAQ,uCAAM,kBAAd,IAAmC,cAAQ,uCAAM,kB;K;IAEjG,6B;MAG+C,QAAC,qBAAAD,IAAiB,CA
AC,kB;K;IAEjE,+B;MAG8C,QAAC,uBAAAD,IAAiB,CAAC,kB;K;IAGhE,iC;MAOI,QAAQ,S;MACR,IAAI,CAA
C,IAAAM,UAAP,KAAsB,CAAAE,KAAK,CAAAP,GAAc,UAApC,K;MACJ,IAAI,CAAC,IAAAM,SAAP,KAAsB,CAA
E,KAAK,CAAAP,GAAc,SAApC,K;MACJ,IAAI,CAAC,IAAAM,SAAP,KAAsB,CAAAE,KAAK,CAAAP,GAAc,SAApC
,K;MACJ,IAAI,CAAC,IAAAM,QAAP,KAAsB,CAAAE,KAAK,CAAAP,GAAc,QAApC,K;MACJ,IAAI,CAAC,IAAAM,
KAAP,KAAsB,CAAAE,KAAK,EAA7B,K;MACJ,OAAAO,C;K;kGAGX,yB;MAAA,iB;MAAA,4B;QAM2D,OAAA,
MAAO,OAAAM,SAAN,C;O;KANlE,C;IAQA,0C;MAOI,YATuD,MAAO,OAS9B,EAAf,aAAAQ,CAAAC,SAAD,IAA
R,CAAAe,CATuB,CAAAT8B,CAS9D,I;K;IAEJ,sC;MAOI,OAAAI,cAAQ,CAAAQ,CAAAZ,GAAe,CAAAf,GAAAsB,CAA
E,IAAAI,EAAAJ,GAlB+B,MAAO,OAkBtB,iB;K;IAAOIlE,qC;MAQI,oBAAAS,CAAAC,SAAAD,IAAA,C;K;IAEJ,yC
;MAaI,oBAAAI,QAAAJ,GAAAiB,cAAAK,EAAAL,GAAAf,GAAqB,CAAAmB,C;K;IAG1C,0C;MAAaI,oBAAAI,EAAA
J,GAAoB,QAAApB,GAAAiC,cAAAK,Q;K;IAG1C,mC;MAMI,OAAAK,AAAAK,alDhEmD,uBkDgEnD,CAAAL,GA
AA0B,alDjE6B,sBkDiE7B,CAA1B,I;K;IAEJ,2C;MAMU,WAAAW,SlDxEuC,ckMkDyEpD,e;QADJ,OACS,KA7E8
C,MAAO,OlDGP,sBkDHO,CA6ErD,I;;QADT,OA5EuD,MAAO,OA8ElD,IA9EkD,I;K;IAiFvD,4C;MAMU,WAAAIFl
E,4C;MAMU,UAAU,SlDpFuC,akMkDqFnD,c;QADJ,OACS,KAAAqB,sBlDF0B,uBkMkDEoF1B,CAArB,I;;QADT,OA
5FAEgB,sBAAAJ,GAAAI,C;K;IAGpB,wC;MAMAOU,WAAAW,SlMkDFuC,ckMkDFuC,c;QADJ,OACS,KA7F
AAK,UAAAS,kBlDIDj
GqC,sBAAAK,DiGrC,C;C;QADIB,OlDjFJG4C,MAAa,KAAAK,UAAAS,GAAT,EkDiFA,GAAT,EkMcDkGvB,ClDl
DlGuB,C;C;;QkDIlmGlD,aAAa,kBAAAL,AAAa,kBAAAL,I;K;IAAxB,C;QAAFzB,OlDjDjG4C,MAAa,KAAAK,UAA
AS,UkDiFA,mG7C,ClDhDnG6C,EAAc,MAAd,C;C;;K;IkDkDsGlE,uC;MAOU,WAAAW,UlDAU,SlDD5GuC,akM
kDCAAqF,ad;5GuC,a;QADJ,OACS,KlMkDEmD6GnD,cM;;QADT,OAAAqB,sBAAAK,DiKrC,C;CAJ;QAAK,WAAAW,i
BlD5GkC,uBkM6GD4GlC,ClKrC,C;C;QlMkDAA1DtB,OlDA7B,OlDC7G4C,MAAa,KAAAS,UkDiFA,UkD8BC8Gh
DlDl7BD,ClD9GC9GgD,EAAc,MAAd,C;C;;K;;QkDkDsGlD,aAAaeE;C;;QCJD+GlD,YAAAS,UkDiFA,iBkMkDEr
B,ClDl7BF/GqB,C;C;;KkDkDrCIkDkHlE,2C;MAMaI,IAAAI,CAAAA,CAAC,WAAAa,EAAAd,MAAAqB,CAAAzB,C;
QACIJ,OlDvHwC,MAAaIQAAD/Hy
C,akDwHD/HyC,ckMkDpGI{DgInD,WAAAW,SlD/HyC,ckMkDpGIDgIpD,aAAa,GAAAL,IAAb,IAAoB,QAAAR,GA
AqB,IAAAK,MAAAK,CAAAK,QAAD,IAAoB,QAAAR,GAAqB,IAAAK,M;C;QAAOIL,ClDAvC,cAAAK,IAAD,IA
AK,IAAAK,QAAT,GAAA,AlAAxB,CAAA,IAAK,QAAD,IAAoB,QAAAR,GAAqB,IAAAK,MAAAK,CAAAK,C;C;;QlM
kDxClD,aAAa,MAAAqB,CAAb,IAAoB,QAAAR,GAAqB,IAAAK,M;K;IAAxB,ClDAhC,GlDDpIwC,MAAaIQAA
D/IyC,WkDwHD/IyC,EAAd,MAAd,C;C;;K;;QkMkDsGIlD,aAAaeE,MAAAqB,CAAb,IAAoB,QAAAR,GAAqB,IAA
AK,M;K;;QkDAhB,GlDDpIwC,MAAc,GAAd,C;C;;K;;QkDkDsGIlD,W;;K;;kFAAKR,yB;MAAA,iB;MAAA,4C;MAAA
,sC;uBkMkDEiB,uB;QAAA,4C;QuMkDEP,alDrCIM,sB;QuDkHC+IlD,QAAQ,S;KkDI1D,iB;MAAaI,WAAAW,S
B;MAAAU,4C;MAAA,sC;K;;kFkDkDKFAKR,yB;MAAA,iB;MAAA,4C;MAAA,sC;QAAA,sC;uBkMkDEjE,CkD

,kC;MAII,OAAO,SAA8B,MAAK,WAAL,C;K;uEAGzC,8C;MAII,OAAO,SAA8B,MAAK,WAAL,EAAkB,UAAl
B,C;K;ICtCzC,iC;MACI,gBAAH,IAAI,OAAO,EAAG,GAAE,IAAI,IAAI,CAAC,CAAD,EAAI,EAAJ,CAAd,GAA
yB,CAAhC,C;K;;;IAKJ,sC;MACI,cAAO,QAAP,GAAkB,QAAQ,Q;K;ICP9B,yC;K;;IAWA,+B;K;;4GAYA,yB;MA
AA,gC;MAAA,yD;MAAA,sC;QAQI,OAAK,qBAAL,SAAK,iB;O;KART,C;ICPI,2B;MAAS,Q;MAAD,OAAwB,C
AAvB,iEAAuB,Q;K;IAMhC,+B;MAAQ,iBAAU,SAAV,C;K;;;;;;;;ICtB+B,4B;MACvC,8B;K;gEAAA,Y;MAAA,4B
;K;2FAII,Y;MzGO4B,MAAM,yB;K;kCyGLtC,iB;MACI,OAAO,oCAA0B,oBAAU,KAAM,OAAhB,C;K;oCAGrC
,Y;MAC+B,gB;MAAA,8FAA0B,C;K;oCAEzD,Y;MAEI,OAAO,oBAAQ,eAAR,C;K;;IAIyB,kC;MAAuB,sBAAc,
MAAd,C;MACL,Q;MAAtD,4BAAmC,CAAmB,OAAZ,MAAY,WAAnB,kC;K;8FAAnC,Y;MAAA,gC;K;oDAEA,
iB;MACW,cAAgB,W;MAAvB,OjEoEuD,MAAa,QiEpEpD,KjEoEoD,EAAY,OAAZ,C;K;;IiEhEjC,0E;MAIvC,sB
AAc,MAAd,C;MAFA,wC;MACA,8C;K;2CAEA,iB;MACI,IAAI,0CAAJ,C;QAAsC,OAAO,K;MAC7C,OAAa,uC
AAO,KAAP,CAAN,IAAuB,+BAAmB,KAAM,kBAAAzB,iB;K;iGAGD,Y;MAAQ,6B;K;uDAEzC,iB;MACI,OAAO,
0BAAmB,KAAnB,C;K;;IAIf,6B;MAAA,iC;MAAoC,sBAAoB,MAApB,C;MAChC,4BAAkC,S;K;+FAAlC,Y;MA
AA,gC;K;qDAEA,iB;MAAgD,Y;K;2FAG5C,Y;MAAQ,MAAM,qCAA8B,6CAA9B,C;K;yCAEl8B,iB;MAA4C,iBA
AU,I;K;2CAEtD,Y;MAA+B,Q;K;;;IAVnC,yC;MAAA,wC;QAAA,uB;;MAAA,iC;K;IAaA,uB;K;yFACqC,Y;M5G
0EY,MAAM,6B4G1EJ,oC5G0EkC,WAA9B,C;K;4F4GzEf,Y;M5GyES,MAAM,6B4G zED,uC5G GyE+B,WAA9B,C
;K;+C4GvEnD,iB;M5GuE6C,MAAM,6B4G vEG,uC5G GuE2B,WAA9B,C;K;mC4GrEnD,iB;MAA4C,iBAAU,I;K;q
CAEtD,Y;MAA+B,Q;K;;oHCnE/B,qB;MAAQ,2B;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;;ICKZ,gE;MAMI,qBAAU,UAAV,EAAg
C,OAAV,WAAU,CAAhC,EAA0C,gBAA1C,C;C;K;IAEJ,8B;MAC2C,iC;K;IAE3C,kC;MAC+C,qBAAU,cAAA,KA
AM,WAAN,CAAV,EAA8B,KAAM,UAApC,EAA+C,IAA/C,C;C;K;IAE/C,2D;MAM0B,IAAN,I;MAAA,QAAM,Q
AAN,C;aACZ,I;;UAAA,K;aACA,K;;UAAA,K;;;UAFY,K;;;UAFY,K;;MAAhB,oB;MAMA,OAAO,uBAAmb,IAAnB,EAAqC
,OAAZ,WAAY,CAArC,SAA/C,EAA0D,KAA1D,C;K;IAGX,kC;MAEI,OAAO,uCAAgB,K;K;IAEpB,8C;
MAEI,OAAA,uCAAgB,mBAAU,IAAV,C;K;IAEpB,8C;MAEI,OAAA,uCAAgB,mBAAU,IAAV,C;K;IAEpB,kD;
MAEI,OAAO,uCAAgB,uBAAc,IAAd,C;K;IC/CI,8D;MACpB,sC;MACA,sC;MACA,kD;K;mEAFA,Y;MAAA,gC;
K;kEACA,Y;MAAA,+B;K;yEACA,Y;MAAA,sC;K;iCAEA,iB;MACI,0CACQ,wBAAc,KAAM,WAApB,CADR,I
AC0C,uBAAa,KAAM,UAAnB,CAD1C,IAC0E,0BAAoB,KAAM,iB;K;mCAExG,Y;MACI,SAAC,CAAAW,SAAX,
eAAW,CAAAX,GAAAwB,EAAxB,QAAuC,SAAV,cAAU,CAAvC,IAAD,IAAsD,EAAtD,QAAA4E,SAAjB,qBAAiB,C
AA5E,I;K;mCAEJ,Y;MACkB,gBAACb,eAAAmB,eAAAmB,qBAAAJ,GAAAsB,GAAA+B,E;MAE9C,OAAqB,uC
AA5E,I;K;mCAEJ,Y;MACkB,gBAACkB,UAACO,M;MADrB,aAAc,2D;MAEV,cAAU,IAAV,C;QAA6B,SAAX,eAA
W,W;;WAC7B,IAAAA,MAAO,WAAP,S;QAAmB,MAAM,gBAAU,UAAd,G
AAyB,EAAAzB,EAAAzB,GACe,eAAAV,cAAU,EAAAa,IAAAb,EAAmB,GAAAnB,EAAAwB,EAAxB,C;MACnB,eAAAmB,qBAAAJ,
GAAAsB,GAAA+B,E;MAE9C,OAAqB,uCAAgB,iBAAAiB,EAAAjB,GAAAwB,EAAxB,Q;K;;IAIvC,wB;MAAA,4B;MACI,4BAAw
C,I;MACxC,2BAAgD,W;;K;;IAIvC,wB;MAAA,4B;MACI,4BAAw
C,I;MACxC,2BAAgD,W;Q;K;;IAIvC,wB;MAAA,4B;MACA,xC;2BAAgD,W;;K;K;0FAFzC,Y;MAAA,gC;K;yFACA,Y;MAAA,+B;K;gGACA,Y;M
AAA,sC;K;sCACA,Y;MAAAkC,gB;K;;;IAJtC,oC;MAAA,mC;QAAA,kB;;MAAA,4B;K;IC7BsC,oE;MAClC,0B;M
ACA,wC;MACA,kC;MACA,oC;K;sEAHA,Y;MAAA,0B;K;6EACA,Y;MAAA,iC;K;0EAEA,iB;K;6EAACA,Y;MAAA,iC;K;0EA
CA,Y;MAAA,+B;K;4CAEA,Y;MAAAkC,gB;K;;8CANtC,Y;MACI,iBAAU,I;K;6EACA,Y;MAAA,iC;K;2EACA,Y;MAAA,+B;K;2EA
CA,Y;MAAA,+B;K;0CAEA,iB;MAAA,4IACIc,oCADJ,IACakCADJ,EAAEIuDAFJ,EAAGIBCAHJ,EAAIIiDAJJ,C;K;4CAA
A,Y;MAAA,c;MACI,qD;MACA,4D;MACA,0D;MAJJ,a;K;0CAAA,iB;MAAA,4IACIc,oCADJ,IAAEI,kD
AFJ,IAGI,4CAHJ,IAII,8CAJJ,I;K;ICAA,4B;MAAA,gC;MAEI,gBACe,wBAAAoB,EAAApB,GAAAmB,EAAA6D,KAAA7D,EAAAo
E,gBAAApE,EAAAyB,EAAA,C;MAEf,mBACkB,wBAAAoB,EAAApB,GAAAmB,EAAA6D,gEAAAgE,QAAAhE,EAAA0B,E,C;MAEnB,oBAChe,wBAAAoB,E
AApB,GAAA6D,KAAA7D,EAAAoE,E,C;MAEnB,iBAChe,wBAAAoB,EAApB,GAAA6D,KAAA7D,EAAAoE,E,C;MAEnB,oBAChe,wBAAAoB,EAApB,G
AAA8D,QAAA9D,EAAAoE,E,C;MAEnB,oBAChe,wBAAAoB,EAApB,GAAA6D,KAAA7D,EAAAoE,E,C;MAEnB,oBAChe,wBAAAoB,EAApB,GA
AA8D,QAAA9D,EAAAoE,E,C;MAEnB,iBAChe,wBAAAoB,EAApB,GAAAyB,ACAAoB,EAApB,GAAAoB,EAAAwE,YAAAxE,EAAAoE
,E,C;MAEnB,oBAChe,wBAAAoB,EAApB,GAAA6D,KAAA7D,EAAAoE,E,C;MAEnB,oBAChe,wBAAAoB,EAApB,GAAA8D,QAAA9D,E
AAAoE,E,C;MAEnB,iBAChe,wBAAAoB,EAApB,GAAA6D,KAAA7D,EAAAoE,E,C;MAEnB,uBACsB,wBAAAoB,EAApB,GAAA6D,KAAA7D,E
AAAoE,E,C;MAEnB,oBAChe,wBAAAoB,EAApB,GAAA6D,KAAA7D,EAAAoE,E,C;MAEtB,uBACsB,wBAAAoB,E

AAoB,YAApB,EAA0E,YAA1E,EAAwF,uCAAxF,C;MAEtB,wBACuB,wBAAoB,YAApB,EAA2E,aAA3E,EAA0F,wCAA1F,C;K;IAMkB,qE;MAAA,qB;QAAE,OvE/DD,OuE+DU,EAAT,KAAiB,UAAjB,IAAkC,EAAY,OAAf,KAA0B,a;O;K;+CAJpG,iB;MAE2B,Q;MAAhB,U;MAAA,KAAgB,OAAhB,eAAgB,CAAI,KAAJ,CAAhB,U;QAAA,a;;QACH,aAAa,wBAAoB,QAApB,EAA+D,kBAA/D,EACoB,mDADpB,C;QAEG,eAAhB,UAAqC,M;QAHlC,SAIH,M;;MAJJ,a;K;IA7D+E,8C;MAAE,6B;K;IAGO,iD;MAAE,0B;K;IAME,kD;MAAE,8B;K;IAGZ,+C;MAAE,6B;K;IAGC,gD;MAAE,6B;K;IAGR,8C;MAAE,6B;K;IAGi,gD;MAAE,6B;K;IAGC,iD;MAAE,6B;K;IAGH,gD;MAAE,yB;K;IAGD,iD;MAAE,6B;K;IAGM,oD;MAAE,mC;K;IAGO,uD;MAAE,gC;K;IAGL,oD;MAAE,6B;K;IAGJ,oD;MAAE,6B;K;IAGE,qD;MAAE,8B;K;IAGR,mD;MAAE,4B;K;IAGJ,oD;MAAE,6B;K;IAGQ,qD;MAAE,8B;K;IAGC,sD;MAAE,+B;K;;;IA5DvH,wC;MAAA,uC;QAAA,sB;;MAAA,gC;K;;;ICCA,2B;MAEW,Q;MAAA,IAAI,KAAY,SAAQ,MAAR,CAAhB,C;QACH,kBAAW,MAAX,C;;QACA,kBAAW,MAAX,C;;MAHJ,W;K;IAOJ,8B;MAC4E,QAAM,QAAS,OAAf,C;aACxE,C;UADwE,OACnE,WAAW,SAAS,CAAT,CAAX,C;aACL,C;UAFwE,OAEnE,+B;;UAFmE,OAGhE,iB;;K;IAGZ,oC;MAEU,IAAN,I;MAAA,QxEhB0C,OwEgB1C,3B;QAAf,C;aAAA,C;UAAf,QAA6B,OAAjB,8BAAiB,Y;UAAA7B,K;aAACA,S;UAA8B,OAAjB,8BAAiB,Y;UAA9B,aUAA9B,K;aAACA,U;UAA+B,OAAjB,8BAAiB,Y;OAAjB,8BAAiB,eAAgB,CAAY,OAAS5B,C;UAAA/B,K;;UAAGQ,6B;YAASc,OAAjB,8BAAiB,Y;UAAG8B,kB;eACtC,0B;YAAmC,OAAjB,8BAAiB,e;eAACnC,0B;YAAmC,OAAjB,8BAAiB,e;eACtC,2B;YAAoC,OAAjB,8BAAiB,gB;eACpC,yB;YACkC,OAAjB,8BAAiB,c;eAClC,0B;YAAmC,OAAjB,8BAAiB,e;eACtC,2B;YAAoC,OAAjB,8BAAiB,gB;eACpC,4B;YAAqC,OAAjB,8BAAiB,iB;eACrC,6B;;eACA,sB;YAAkC,OAAjB,8BAAiB,W;;YAE9B,kBAAkB,MAAa,gBAAe,CAAf,CAAkB,Y;YAE7C,oBAAgB,MAAhB,C;cAAiD,oBAAgB,KAAhB,C;cccAAgD,e;;cAE5C,cAA0B,W;cAC1B,kBAAkB,OAAX,C;;;;UAxBxB,K;;MAAA,W;K;IAgCJ,4B;MAMW,Q;MAJP,IAAI,WAAW,MAAf,C;QAA6B,OAAAO,8BAAiB,Y;;MAE9B,MAAAY,eAAsB,M;MAAY,W;MAE3B,IAAAAI,gBAAAJ,C;QAC8B,QAAjB,oBAAAAsBAAY,C;O;Kc;qEAchB,4B;MAIkE,iBAAAAY,KAAAAZ,C;K;2EAElE,qB;MAAI8D,gB;K;IClDb,2C;MAC7C,qBAAAwC,Q;K;iDAExC,Y;MACmB,Q;MAAAA,yB;MAAAA,iB;QAAAe,MAAAM,6BAAAsB,0CAAAtB,C;;MAAAApC,eAAe,I;MACf,qBAAAAchB,4B;MAIkE,iBAAAAY,K;IAAA,mC;MAAA,sC;O;MAEI,qEAGW,CA
HX,EAGc,IAHd,C;MAKA,iFAGiB,CAHjB,bEAGoB,IAHpB,C;MAKA,iFAGiB,CAHjB,bEAGoB,IAHpB,C;MAKA,iFAGiB,CAHjB,bEAGoB,IAHpB,C;MAKA,+EAGgB,CAHhB,bEAGmB,IAHnB,C;MAKA,yEAGa,CAHb,bAGgB,IAHhB,C;MAKA,iFAGiB,CAHjB,bEAGoB,IAHpB,C;MAKA,6EAGe,CAHf,bEAGkB,IAHlB,C;MAKA,6FAGuB,CAHvB,bEAG0B,IAH1B,C;MAKA,yFAGqB,CAHrB,bEAGwB,IAHxB,C;MAKA,4EAGc,EAHd,bEAGkB,IAHlB,C;MAKA,0EAGa,EAHb,bEAGiB,IAHjB,C;MAKA,gFAGgB,EAHhB,bEAGoB,IAHpB,C;MAKA,8EAGe,EAHf,bEAGmB,IAHnB,C;MAKA,wFAGoB,EAHpB,bEAGwB,IAHxB,C;MAKA,gEAGQ,EAHR,EAGY,IAHZ,C;MAKA,8DAGO,EAHP,EAGW,IAHX,C;MAKA,wEAGY,EAHZ,bEAGgB,IAHhB,C;MAKA,oEAGU,EAHV,EAGc,IAHd,C;MAKA,kFAGiB,EAHjB,EAGqB,IAHrB,C;MAKA,oFAGkB,EAHlB,bEAGsB,IAHtB,C;MAKA,gFAGgB,EAHhB,bEAGoB,IAHpB,C;MAKA,4FAGsB,EAHtB,bEAG0B,IAH1B,C;MAKA,oFAGkB,EAHlB,bEAGsB,IAHtB,C;MAKA,wEAGY,EAHZ,bEAGgB,IAHhB,C;MAKA,gFAGgB,EAHhB,bEAGoB,IAHpB,C;MAKA,gFAGhB,EAHhB,bEAGoB,IAHpB,C;MAKA,0EAGa,EAHb,bEAGiB,IAHjB,C;MAKA,oGAG0B,EAH1B,bEAG8B,IAH9B,C;MAKA,gGAGwB,EAHxB,bEAG4B,IAH5B,C;MAUA,oC;K;;IA3JA,+C;MAAA,yB;MAAA,uC;K;;IAKA,qD;MAAA,yB;MAAA,uC;K;;IAKA,6C;;IAKA,qD;MAAA,yB;MAAA,6C;K;;IAKA,qD;MAAA,yB;MAAA,6C;K;;IAKA,oD;MAAA,yB;MAAA,4C;K;;IAKA,iD;MAAA,yB;MAAA,yC;K;;IAKA,2D;MAAA,yB;MAAA,mD;K;;IAKA,2D;MAAA,yB;MAAA,mD;K;;IAKA,kD;MAAA,yB;MAAA,0C;K;;IAKA,iD;MAAA,yB;MAAA,yC;K;;IAKA,kD;MAAA,yB;MAAA,0C;K;;IAKA,oD;MAAA,yB;MAAA,4C;K;;IAKA,mD;MAAA,yB;MAAA,2C;K;;IAKA,wD;MAAA,yB;MAAA,gD;K;;IAKA,gD;MAAA,yB;MAAA,wC;K;;IAKA,8C;MAAA,yB;MAAA,sC;K;;IAKA,sD;MAAA,yB;MAAA,8C;K;;IAKA,kD;MAAA,yB;MAAA,0C;K;;IAKA,8D;MAAA,yB;MAAA,sD;K;;IAKA,8D;MAAA,yB;MAAA,sD;K;;IAKA,oD;MAAA,yB;MAAA,4C;K;;IAKA,oD;MAAA,yB;MAAA,4C;K;;IAKA,iD;MAAA,yB;MAAA,yC;K;;IAKA,8D;MAAA,yB;MAAA,sD;K;;IAKA,4D;MAAA,yB;MAAA,oD;K;8CAKA,gB;MAG2D,OAAAK,iBAAAL,IAAAK,CAAAL,KAAA2B,IAAAK,c;K;IAE3F,3F;kC;MAAA,sC;K;uDACI,oB;MAEQ,I

ADE,QACF,IAAG,CAAH,IADE,QACF,IAAM,EAAN,C;QADJ,OACgB,sBAAS,QAAT,C;WACZ,IAFE,QAEF,IAAG,EAAH,IAFE,QAEF,IAAO,EAAP,C;QAFJ,OAEiB,sBAAS,WAAW,CAAX,IAAT,C;;QACL,MAAM,gCAAyB,eAAY,QAAZ,qBAAzB,C;K;;;IAL1B,8C;MAAA,yB;MAAA,6C;QAAA,4B;;MAAA,sC;K;;IA7JJ,+B;MAAA,+yC;K;;IAAA,oC;MAAA,a;aAAA,Y;UAAA,4C;aAAA,kB;UAAA,kD;aAAA,kB;UAAA,kD;aAAA,kB;UAAA,kD;aAAA,iB;UAAA,iD;aAAA,c;UAAA,8C;aAAA,kB;UAAA,kD;aAAA,gB;UAAA,gD;aAAA,wB;UAAA,wD;aAAA,sB;UAAA,sD;aAAA,e;UAAA,+C;aAAA,c;UAAA,8C;aAAA,iB;UAAA,iD;aAAA,gB;UAAA,gD;aAAA,qB;UAAA,qD;aAAA,S;UAAA,yC;aAAA,Q;UAAA,wC;aAAA,a;UAAA,6C;aAAA,W;UAAA,2C;aAAA,kB;UAAA,kD;aAAA,mB;UAAA,mD;aAAA,iB;UAAA,iD;aAAA,uB;UAAA,uD;aAAA,mB;UAAA,mD;aAAA,a;UAAA,6C;aAAA,iB;UAAA,iD;aAAA,iB;UAAA,iD;aAAA,c;UAAA,8C;aAAA,2B;UAAA,2D;aAAA,yB;UAAA,yD;;UAAA,6D;;K;;ICKiD,2C;uBAA+B,O;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICD8B,gC;MAe9B,gBAAiC,YAAY,SAAhB,GAA2B,OAA3B,GAAwC,E;K;uFAGjE,Y;MAAQ,OAAAO,aAAY,O;K;yCAE/B,iB;MACW,gBAAAP,a,MrGoGG,Q;MAAA,IqGpGc,KrGoGV,IAAS,CAAT,IqGpGU,KrGoGI,IAAS,2BAA3B,C;QAAA,OAAsC,qBqGpGGxB,KrGoGWgB,C;;QqGpGGwB,KrGoGWb,C;;QqGpGGf,MAAM,8BAA0B,mCAAyB,WAAzB,MAA1B,C;;MAAhC,W;K;kDAEJ,gC;MAAgF,OAAA1B,aAAY,a1GiMY,W0GjMK,U1GiML,E0GjMiB,Q1GiMjB,C;K;6C0G/L/B,iB;MACI,qCAAU,KAAV,C;MACA,OAAO,I;K;6CACX,iB;MAAgE,gB;MAAA,SAAN,KAAM,C;MAAhE,Y;K;6CACX,uB;MACI,OAAA7B,aAAY,I;K;6CACX,iB;MAAgE,gB;MAAA,SAAN,KAAM,C;MAAhE,Y;K;6CACX,iB;MAAgE,gB;MAAA,SAAN,KAAM,C;MAAhE,Y;K;sCAET,Y;MAayB,UAEK,M;MAAL,eAAE,E;MAL1B,eAAAe,E;MAACf,YAAY,aAAO,OAAP,GAAgB,CAAAhB,aAAA,oBAAAgB,CAAhB,C;MAAb,IAACf,KAAA,oBAAAe,CAAD,C;QAAA,oBAAAA,CAAA,SAAA,C;;QAACf,YAAA,IqGoGG,eAAAe,C;;MrGpGH,W;K;UACV,WAAAW,a;MAAA,0BAAAX,E;MAAA,gwD;K;;IAAA,oC;MAAA,a;aAAA,Y;UAAA,4C;aAAA,kB;UAAA,kD;;UAAA,6D;;K;;ICCD,2C;uBAAgC,O;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICIiC,2C;uBAAgC,O;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICGiC,2C;uBAAU,K;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICCiC,2C;uBAAgC,e;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICGiC,2C;MAC2C,2BAAO,KAAP,C;K;;6CAE3C,iB;MAAO,gBAAA7B,a,MAAO,O;;K;uCAGX,Y;MAAU6B,6BAA+C,KAAxB,K;;K;qDAE7B,2B;MAAK,8CAAcA,kB;MAAkB,qB;;K;;ICFpD,8B;MAMnC,gBAAA7B,aAAiB,mB;K;;kBMA;bEnF,kB;MAQ8C,gBAAA6B,a;;K;;ICFpD,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;;IC/F9B,iD;MMqBE,8B;MNbF,oBAAA7B,a;MAGoB,aAAa,CAArB,IAAoB,E;MAC1B,gBAAA6B,a;;K;;ICRD,8B;MMEhB,8B;MNMH,oBAAA7B,a;MNRa,4CAArB,cAAa,CAArB,IAAoB,E;MOUlB,gBAAA6B,a;;KPnBiB,iB;K;kD0GkBN,iB;MAAa,iB;K;;ICGX,8B;MMEhB,8B;MNMH,oBAAA7B,a;;KMgBkB,iB;K;NdV9B;fGnF,iD;MMqBE,8B;MNbF,oBAAA7B,a;;Ka1B2E,O;;K;;ICFpD,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;;IC/F9B,iD;MM+BE,gCAAe,a;MN3CjB,4CAArB,cAAa,CAArB,IAAoB,E;MOUlB,gBAAA6B,a;;KPnBiB,iB;K;;I0GsBc,2C;uBAAgC,e;;K;;ICS9C,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;;ICS9B,iD;MMeE,8B;MN3BF,oBAAA7B,a;MNRa,4CAArB,cAAa,CAArB,IAAoB,E;;K;+CGY9B,iB;MAC2C,2BAAO,KAAP,C;K;;ICGlB,2C;uBAAU,K;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICCiC,2C;MACI,gBAAA6B,a;MAAA,2BAAAA,EAAA,KAAA,EAAyB,WAAAA,aAAzB,C;;K;;ICGM,2C;uBAAU,K;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICCiC,2C;MACI,gBAAA6B,a;MAAA,2BAAAA,EAAA,KAAA,EAAyB,QAAA,BAAyB,E;MAAAA,YAAwC,WAAAA,aAAxC,C;MAAA,gBAAAA,a;;K;;ICGM,2C;uBAAU,K;;K;;IAC5E,8C;yC0G4H4B,Y;K;uCAAK,oB;;K;;ICFH,2C;uBAAgC,e;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICCiC,2C;MACI,gBAAA7B,a;MAAA,2BAAAA,EAAA,aAAA,EAAyB,UAAA,BAAyB,EAAA,YAA+B,WAAA,BAAyB,E;;K;;ICGzF,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICA9B,iD;MMcE,gCAAe,a;MN1BjB,4CAArB,cAAa,CAArB,IAAoB,E;;K;;I0GgKE,2C;uBAAgC,e;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICCiC,2C;MAMI,gBAAA7B,a;MAAA,2BAAAA,EAAA,aAAA,EAAyB,UAAA,BAAyB,EAAA,WAA+B,WAAA,BAAyB,E;MAAAA,YAAwC,WAAAA,aAAxC,C;;K;;ICGjC,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICA9B,iD;MMcE,gCAAe,a;MN1BjB,4CAArB,cAAa,CAArB,IAAoB,E;;K;;I0GgKE,2C;uBAAU,K;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICCiC,2C;MACI,gBAAA7B,a;MAAA,2BAAAA,EAAA,aAAA,EAAyB,UAAA,BAAyB,EAAA,WAA+B,WAAA,BAAyB,E;MAAAA,YAAwC,WAAAA,aAAxC,C;;K;;ICGjC,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICA9B,iD;MMcE,gCAAe,a;MN1BjB,4CAArB,cAAa,CAArB,IAAoB,E;;K;;I0GqKE,2C;uBAAgC,e;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICA9B,2C;MAKI,gBAAA7B,a;MAAA,2BAAAA,EAAA,aAAA,EAAyB,UAAA,BAAyB,EAAA,WAA+B,WAAA,BAAyB,E;MAAAA,YAAwC,WAAAA,aAAxC,C;;K;;ICGjC,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICA9B,2C;MAKI,gBAAA6B,a;MAAA,2BAAAA,EAAA,aAAA,EAAyB,UAAA,BAAyB,EAAA,WAA+B,QAAA,BAAyB,EAAAyC,YAAwC,WAAAzC,aAAxC,C;MAAA,gBAAAA,a;;K;;ICGrC,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICA9B,2C;MAMI,gBAAA6B,a;MAAA,2BAAAA,EAAA,aAAA,EAAyB,UAAA,BAAyB,EAAA,WAA+B,QAAA,BAAyB,EAAAyC,YAAwC,WAAAzC,aAAxC,C;MAAA,gBAAAA,a;;K;;ICGrC,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICA9B,2C;MAKI,gBAAA6B,a;MAAA,2BAAAA,EAAA,aAAA,EAAyB,UAAA,BAAyB,EAAA,WAA+B,QAAA,BAAyB,E;MAAAyC,YAAwC,WAAAzC,aAAxC,C;;K;;ICGjC,8C;MAAA,kE;MAAuB,eAAe,wBAAS,M;;MACxB,gBAAAA,a;;K;MACxB,gBAAAA,a;MAAA2C,cAAK,IAAK,S1GnEoE,W0GmEpD,C1GnEoD,E0GmEjD,K1GnEiD,C0GmE1E,EAAgB,QAAA,CAAAA,lC,IAAC,QAAA6B,a;;K;;ICF2B,2C;uBAAgC,e;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICGiC,2C;MACI,gBAAA7B,a;MAAA,2BAAAA,EAAA,aAAA,EAAyB,UAAA,BAAyB,EAAA,YAA+B,WAAA,BAAyB,E;;K;;ICGzF,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;;ICS9B,iD;MMaE,gCAAe,a;MNzBjB,4CAArB,cAAa,CAArB,IAAoB,E;;KOuBgB,iB;K;NdV9B;f0GkBgC,2C;uBAAgC,e;;K;;ICFtC,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICA9B,iD;MMcE,gCAAe,a;MN1BjB,4CAArB,cAAa,CAArB,IAAoB,E;;K;yC0GwI6B,Y;K;uCAAK,oB;;K;;ICFH,2C;uBAAgC,e;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICGiC,2C;MAAA,4B;MAAA,6B;QAAA,4B;;MAAA,sC;K;;ICFC,8C;MAAA,kE;MAAuB,aAAe,YAAW,WAAAjB,a,C;;;MACxB,gBAAAiB,a;;K;;IC/F9B,iD;MMgCE,8B;MN5CF,oBAAAjB,a;MNRa,4CAArB,cAAa,CAArB,IAAoB,E;;K;;I0G4Bc,2C;uBAAgC,e;;K;;ICS9C,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;;IC/F9B,iD;MMgCE,8B;MN5CF,oBAAAjB,a;;K;;I0GoCc,2C;uBAAgC,e;;K;;ICFtC,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICA9B,iD;MMcE,gCAAe,a;MN1BjB,4CAArB,cAAa,CAArB,IAAoB,E;;K;yC0GyI6B,Y;K;uCAAK,oB;MAAkB,MAAI,yBAAAkB,kB;UAAlB,UAAAlB,a;;MAAAkB,lC,IAAC,kB;;K;;ICF1B,+C;MAAA,kE;uC0GkJ4B,Y;MAAI,yBAAAkB,kB;UAAlB,UAAAlB,a;;MAAAkB,lC,IAAC,UAAA,BAAwC,kB;UAAlB,UAAAlB,a;;MAAAkB,lC,IAAC,EAAAyC,YAAwC,WAAAzC,aAAxC,C;;MAAA,gBAAAA,a;;K;;ICGM,8C;MAAA,kE;MAAuB,eAAe,yBAAAkB,kB;UAAlB,UAAAlB,a;;MAAAkB,lC,IAAC,uC;MACxB,gBAAAlB,a;;K;MACxB,gBAAAA,a;;K;;

Ac,IAAK,S1GlLqE,W0GkLpD,C1GlLoD,E0GkLjD,U1GlLiD,C0GkL1E,GAAuC,KAAvC,GAA+C,IAAK,S1GrL
O,W0GqLU,Q1GrLV,C;M0GsLzE,OAAO,I;K;kDAGX,wC;MACI,IAAI,aAAa,CAAb,IAAkB,aAAa,MAAnC,C;Q
ACI,MAAM,8BAA0B,iBAAc,UAAd,kBAAmC,MAA7D,C;;MAEV,IAAI,aAAa,QAAjB,C;QACI,MAAM,gCAAy
B,gBAAa,UAAb,qBAAqC,QAArC,MAAzB,C;;K;+CAId,iB;MAYI,oCAAa,2BAAkB,KAAlB,EAAyB,WAAzB,C;
MAEb,gBAAS,a1G7M+E,W0G6M9D,C1G7M8D,E0G6M3D,K1G7M2D,C0G6M/E,GAA6B,a1GhNmC,W0GgNl
B,QAAQ,CAAR,I1GhNkB,C;M0GiNzE,OAAO,I;K;kDAGX,gC;MAWI,yBAAkB,UAAlB,EAA8B,QAA9B,EAA
wC,WAAxC,C;MAEA,gBAAS,a1G9N+E,W0G8N9D,C1G9N8D,E0G8N3D,U1G9N2D,C0G8N/E,GAAkC,a1GjO
8B,W0GiOb,Q1GjOa,C;M0GkOzE,OAAO,I;K;kDAGX,gE;MAc+C,iC;QAAA,oBAAyB,C;MAAG,0B;QAAA,aA
AkB,C;MAAG,wB;QAAA,WAAgB,IAAK,O;MAKlF,IACf,I;MALhB,oCAAa,4BAAmB,UAAnB,EAA+B,QAA/B
,EAAyC,WAAzC,C;MACb,oCAAa,4BAAmB,iBAAnB,EAAsC,oBAAoB,QAApB,GAA+B,UAA/B,IAAtC,EAAiF
,WAAY,OAA7F,C;MAEb,eAAe,iB;MACf,iBAAc,UAAd,UAA+B,QAA/B,U;QACI,YAAY,eAAZ,EAAY,uBAAZ,
UAA0B,yBAAO,KAAP,C;;K;kDAIlC,uC;MAcI,iBAAgB,iBAAN,KAAM,EAAAe,UAAf,EAA2B,QAA3B,C;MACh
B,OAAO,I;K;kDAGX,uC;MAYI,gBAAgB,KAAM,W;MACtB,oCAAa,4BAAmB,UAAnB,EAA+B,QAA/B,EAAy
C,SAAU,OAAnD,C;MAEb,iBAAU,S1G3R8E,W0G2R1D,U1G3R0D,E0G2R9C,Q1G3R8C,C;M0G4RxF,OAAO,I;
K;kDAGX,8C;MAgBI,oCAAa,4BAAmB,KAAnB,EAA0B,IAAK,OAA/B,C;MAEb,gBAAS,a1GjT+E,W0GiT9D,C
1GjT8D,E0GiT3D,K1GjT2D,C0GiT/E,GAAmC,iBAAN,KAAM,EAAe,UAAf,EAA2B,QAA3B,CAAnC,GAA0E,a
1GpTV,W0GoT2B,K1GpT3B,C;M0GqTzE,OAAO,I;K;kDAGX,8C;MAgBI,oCAAa,4BAAmB,KAAnB,EAA0B,W
AA1B,C;MAEb,gBAAgB,KAAM,W;MACtB,oCAAa,4BAAmB,UAAnB,EAA+B,QAA/B,EAAyC,SAAU,OAAnD
,C;MAEb,gBAAS,a1G1U+E,W0G0U9D,C1G1U8D,E0G0U3D,K1G1U2D,C0G0U/E,GAA6B,S1G1UkD,W0G0U9
B,U1G1U8B,E0G0UlB,Q1G1UkB,C0G0U/E,GAAyE,a1G7UT,W0G6U0B,K1G7U1B,C;M0G8UzE,OAAO,I;K;;I
AliBX,6C;MAAA,uD;MAKoC,2B;MALpC,Y;K;IAQA,8C;MAAA,uD;MAC4C,0BAAK,OAAQ,WAAb,C;MAD5
C,Y;K;IAGA,qC;MAAA,uD;MACuB,0BAAK,EAAL,C;MADvB,Y;K;2EA4hBJ,qB;MAOgE,OAAA,SAAK,Q;K;u
EAErE,mC;MAQ+E,SAAK,aAAI,KAAJ,EAAW,KAAX,C;K;+EAEpF,kD;MAaI,OAAA,SAAK,kBAAS,UAAT,E
AAqB,QAArB,EAA+B,KAA/B,C;K;+EAET,4B;MAY6E,OAAA,SAAK,kBAAS,KAAT,C;K;qFAElF,2C;MAWo
G,OAAA,SAAK,qBAAY,UAAZ,EAAwB,QAAxB,C;K;uFAEzG,2E;MAe2E,iC;QAAA,oBAAyB,C;MAAG,0B;Q
AAA,aAAkB,C;MAAG,wB;QAAA,WAAgB,SAAK,O;MAC7I,SAAK,qBAAY,WAAZ,EAAyB,iBAAzB,EAA4C,
UAA5C,EAAwD,QAAxD,C;K;qFAET,kD;MAeI,OAAA,SAAK,qBAAY,KAAZ,EAAmB,UAAnB,EAA+B,QAA/
B,C;K;uFAET,kD;MAaI,OAAA,SAAK,qBAAY,KAAZ,EAAmB,UAAnB,EAA+B,QAA/B,C;K;qFAET,yD;MAiBI
,OAAA,SAAK,qBAAY,KAAZ,EAAmB,KAAnB,EAA0B,UAA1B,EAAsC,QAAtC,C;K;uFAET,yD;MAiBI,OAA
A,SAAK,qBAAY,KAAZ,EAAmB,KAAnB,EAA0B,UAA1B,EAAsC,QAAtC,C;K;qF3GhsBT,qB;MAMoD,OA6B
W,8BAAY,cAfrB,YAAY,CAAZ,C;K;yFAZtD,qB;MAYsD,OAeS,8BAAY,cAfrB,YAAY,CAAZ,C;K;iFAEtD,qB;
MAaoD,OAAW,8BAAY,c;K;qFAE3E,yB;MAAA,uD;MAAA,4B;QAMoD,+B;O;KANpD,C;IAQA,kC;MAYI,gB
AiB2D,8BAAY,c;MAhBvE,OAAW,SAAU,OAAV,GAAmB,CAAvB,GAA0B,SAA1B,GAAoC,qBAAU,CAAV,C;
K;iFAG/C,qB;MAaoD,OAAW,8BAAY,c;K;IAE3E,kC;MAU+C,mC;K;IAE/C,oC;MAGoD,QAAQ,cAAA,sCAAK,
mBAAL,EAAyB,sCAAK,mBAA9B,CAAR,6B;K;IAEpD,mC;MAGmD,QAAQ,cAAA,sCAAK,kBAAL,EAAwB,s
CAAK,kBAA7B,CAAR,6B;K;IAO/C,iC;MAAQ,OAAAA,oCAAa,iBAAQ,2BAAR,C;K;IAEzB,8B;MAOI,IAAI,YA
AO,GAAX,C;QACI,OAAO,I;;MAEX,OAAO,gCAA8C,mD;K;IAGzD,6B;MAUI,IAAI,CAAQ,kBAAK,GAAL,CA
AR,iCAAoB,CAAQ,kBAAK,EAAL,CAAR,6BAAxB,C;QACI,OAAO,I;;MAEX,IAAI,YAAO,GAAX,C;QACI,OA
AO,K;;MAEX,OAAO,uB;K;IAGX,oC;MAUI,IAAI,CAAQ,kBAAK,GAAL,CAAR,iCAAoB,CAAQ,kBAAK,EAA
L,CAAR,6BAApB,IAAwC,CAAQ,kBAAK,EAAL,CAAR,6BAA5C,C;QACI,OAAO,I;;MAEX,IAAI,YAAO,GAA
X,C;QACI,OAAO,K;;MAGX,OAAO,0BAAiB,uB;K;IAG5B,4B;MASI,IAAI,CAAQ,kBAAK,EAAL,CAAR,6BAA
J,C;QACI,OAAO,I;;MAEX,IAAI,YAAO,GAAX,C;QACI,OAAO,K;;MAEX,OAAO,sB;K;IAGX,gC;MAUI,IAAI,
CAAQ,kBAAK,EAAL,CAAR,6BAAJ,C;QACI,OAAO,I;;MAEX,IAAI,YAAO,GAAX,C;QACI,OAAO,K;;MAEX,
OAAO,0B;K;IAGX,gC;MAUI,IAAI,CAAQ,kBAAK,GAAL,CAAR,6BAAJ,C;QACI,OAAO,I;;MAEX,IAAI,YAA
O,GAAX,C;QACI,OAAO,K;;MAEX,OAAO,0B;K;IAGX,gC;MASI,IAAI,YAAO,GAAX,C;QACI,OAAO,K;;MAE
X,OAAO,gCAAoD,yD;K;IAG/D,iC;MAUI,OAAO,aAAQ,EAAR,IAAoB,CAAQ,mBAAU,GAAV,CAAR,6B;K;IA
G/B,iC;MAMiD,kC;K;iF4GtPjD,yB;MAAA,+C;MAAA,4B;QAMuD,OAAK,UAAL,SAAK,C;O;KAN5D,C;IAQA,
gC;MAMiD,4B;MAAA,S;QAAgB,cAAA,S3G4LC,c2G5LD,EAAoB,MAApB,C;;MAAhB,W;K;IAEjD,6B;MAI0CQ;MAAA,yDAAkB,kBAAkB,
SAAlB,C;K;IAE5D,oC;MAKoD,Q;MAAA,yCAAa,KAAb,oBAAuB,kBAAkB,SAAlB,C;K;IAE3E,6B;MAIyF,kB
AA1C,CAAO,S;MAClD,IAAO,QrHeD,WqHfC,CAAH,IAAc,CAAM,kBAAApB,KrHeE,WqHf6B,KAAM,GAAN,I
AAkB,kBAAjD,CAAJ,C;QACI,4B;MAFsC,OrHiBnC,W;K;6EqHZX,yB;MAAA,6C;MAAA,4B;QAKmD,0B;O;K
ALnD,C;IAOA,mC;MAIgG,kBAA1C,CAAO,S;MAAR,OACjD,EAAK,QrH2BgB,WqH3BhB,CAAH,IAAc,CAA
M,kBAAApB,KrH2BmB,WqH3BY,KAAM,GAAN,IAAkB,kBAAjD,CAAF,CrH2BO,GAAqB,WAArB,GAA+B,I;K
;yFqHxB1C,yB;MAAA,yD;MAAA,4B;QAK0D,gC;O;K;KAL1D,C;iFAOA,yB;MAAA,6C;MAAA,mC;QAO6D,OA
Aa,SAAR,SAAQ,EAAS,KAAT,C;O;K;KAP1E,C;iFASA,yB;MAAA,6C;MAAA,mC;QAO8D,OAAa,SAAR,SAAQ,E
AAS,KAAT,C;O;K;KAP3E,C;IASA,sC;MAMqD,OAAA,SAAY,UAAS,WAAW,KAAX,CAAT,C;K;IAEjE,4B;MAA
sC,QAAM,S3G4EsB,c2G5E5B,C;aAClC,K;aAAA,M;aAAA,M;UADkC,OACT,I;;UAADS,OAE1B,K;;K;IAGZ,2B;
MAKI,IAAI,EAAU,CAAV,sBAAa,EAAb,CAAJ,C;QACI,MAAM,gCAAyB,WAAQ,KAAR,kCAAzB,C;;MAEV,
OAAO,K;K;IAGX,8B;MAA2D,Q;MACvD,YAAQ,EAAR,IAAe,QAAQ,EAAvB,C;QAA8B,cAAO,E;WACrC,YA
AQ,EAAR,IAAe,QAAQ,EAAvB,C;QAA8B,cAAO,EAAP,GAAa,EAAb,I;WAC9B,YAAQ,EAAR,IAAe,QAAQ,G
AAvB,C;QAA8B,cAAO,EAAP,GAAa,EAAb,I;WAC9B,WAAO,GAAP,C;QAAmB,S;WACnB,YAAQ,KAAR,IA
AoB,QAAQ,KAA5B,C;QAAAwC,cAAO,KAAP,GAAkB,EAAlB,I;WACxC,YAAQ,KAAR,IAAoB,QAAQ,KAA5B,
C;QAAAwC,cAAO,KAAP,GAAkB,EAAlB,I;;QAC3B,sBAAL,IAAK,C;MrH9CN,a;MqHuCgD,OAQ/C,WAAJ,GA
AiB,EAAjB,GAAyB,E;K;IClJG,2C;MAHpC,e;MAGqC,kB;MAHrC,iB;MAAA,uB;K;IAAA,kC;MAAA,qC;O;MA
II,qEACY,GADZ,C;MAEA,iEAIU,GAJV,C;K;;IAFA,+C;MAAA,wB;MAAA,uC;K;;IAEA,6C;MAAA,wB;MAAA
,qC;K;;IANJ,8B;MAAA,mF;K;;IAAA,mC;MAAA,a;aAAA,a;UAAA,4C;aAAA,W;UAAA,0C;;UAAA,4D;;K;;IAa
wG,4B;MAAE,OAAA,EAAG,M;K;IAA7G,qC;MAAqE,iCAAa,EAAb,EAA0B,0BAAmC,cAAnC,C;K;IA
QlC,2B;MAAC,kB;K;;sCALpC,Y;MAKoC,iB;K;wCALpC,iB;K;wCAAA,sBAKoC,qCALpC,C;K;oCAAA,Y;MAAA,
OAKoC,iDALpC,M;K;oCAAA,Y;MAAA,c;MAKoC,sD;MALpC,a;K;kCAAA,iB;MAAA,2IAKoC,sCALpC,G;K;I
AqB0B,iC;MA8PtB,6B;MArPA,eACoC,O;MACpC,eACsD,QAAR,OAAAQ,C;MACtD,uBAAoC,WAAO,OAAP,E
AAwB,QAAR,OAAAQ,EAAAQ,IAAR,CAAxB,C;MACpC,6BAA2C,I;MAI3C,oCAAkD,I;K;0CAHlD,Y;MACI,Q;
MAAA,U;MAAA,gD;QAAA8D,gBAAvC,WAAO,YAAP,EAAwB,QAAR,YAAAQ,EAAAQ,IAAR,CAAxB,C;QAA8C
,6BtHmCnE,S;QsHnCF,StHoCG,S;;MsHpCH,a;K;iDAGJ,Y;MACI,Q;MAAA,U;MAAA,uD;QAAA,a;;QtH
VG,gB;QsHWC,IAAY,aAAR,YAAAQ,EAAAW,EAAX,CAAR,IAAmC,WAAR,YAAAQ,EAAAS,EAAT,CAAvC,C;;U
AA,eACI,oB;;UAEA,OAAAO,WAAO,MAAA2B,UAAf,YAAR,qBAAAQ,EAAAR,EAAe,qBAAAQ,EAAAR,EAA3
B,MAAAP,EAAA2D,QAAR,YAAAQ,EAAAQ,IAAR,CAA3D,C;QACb,4B;QAAAO,oCtH0CP,S;QsH/BF,StHgCG,
S;;Ms
HhCH,a;K;sCAQJ,iB;MAEkB,MAAd,oBAAAc,C;MACd,YAAY,oBAAAc,MAAK,KAAM,WAAX,C;MAC1B,OAA
O,iBAAAiB,KAAM,MAAN,KAAe,CAAAhC,IAAqC,oBAAAc,UAAd,KAA2B,KAAM,O;K;8CAGjF,iB;MAEkB,MAA
d,oBAAAc,C;MACd,OAAAO,oBAAAc,MAAK,KAAM,WAAX,C;K;wCAGzB,wB;MAGI,IAAI,QAAQ,CAAAR,IAA
a,QAAAQ,KAAM,OAA/B,C;QACI,MAAM,8BAAA0B,0B;MAEV,OAAAc,oBAAAc,MAAK,KAAM,WAAX,C;K;
mCAGnB,6B;MAS4C,0B;MAC1D,IAAA8D,IAAAa,AAkB,C;MAC1D,IAAAa,CAAAb,IAAI,aAAa,CAAAb,IAAkB,aAA
a,KAAM,OAAAzC,C;MACjC,iBAAA8D,IAAY,a;MAIZ,oBAAAc,C;MACA,oBAAAR,IAAA8D,gCAAA6B,UAA7B,wB
AAAyD,KAAM,OAAAzF,C;;MAEV,iBAAA8D,IAAY,a;MAIZ,oBAAAc,C;MACA,oBAAAR,IAAAmBAAiB,6CAAjB,wB;
;MAEA,OAAAc,oBAAAc,MAAK,KAAM,WAAX,C;K;IAeG,6E;MAAA,mD;MAAA,qB;QAAAS,2BAAAoB,EAAAp
B,EAAAwB,EAAAxB,kBAAAZ,KAAAZ,C;O;K;8BAxBH,Y;MAQJ,2BAAAoB,EAAApB,EAAAwB,EAAAxB,kBAAAZ,
KAAAZ,C;K;0CAAA,Y;MAAA,c;MAQI,sD;MARJ,a;K;0EAAA,iB;MAAA,2IAQI,uCARJ,8B;MAqBI,kBAAAoB,IAAA
I,CAAAa,YAAAZ,WAAAA,YAAAZ,EAAAS,EAAAb,CAAb,IAAA+B,YAAAZ,EAAAS,EAAAb,C;QAAAyD,OAAA
oB,2B;;QACI,OAAA8C,oBAAAc,MAAK,KAAM,WAAX,C;K;IAcH,4E;MAAA,mD;MAAA,qB;QAAAS,2BAAAoB,E
AAApB,EAAAwB,EAAAxB,kBAAAZ,KAAAZ,C;O;K;6BAxBH,Y;MAQJ,2BAAAoB,EAAApB,EAAAwB,EAAAxB,k
BAAAZ,KAAAZ,C;K;;
MAqBI,kBAAAoB,IAAI,CAAAa,YAAAZ,WAAAA,YAAAZ,EAAAS,EAAAb,C;MAqBI,6CAAAoB,EAAApB,EAAAwB,
EAAAxB,kBAAAZ,KAAAZ,C;K;IAcH,4E;MAAA,mD;MAAA,qB;QAAAS,2BAAAoB,EAAApB,EAAAwB,EAAAxB,k
bAAAZ,KAAAZ,C;O;K;IA4BL,mD;MAAA,qB;QAAAE,2BAAAoB,EAAApB,EAAAwB,EAAAxB,kBAAAZ,KAAAZ,C;
O;K;;M4GzE7F,OAAO,qBAAQ,KA

AR,EAAe,iCAAf,C;K;sCAGX,4B;MAMI,YAAY,kBAAK,KAAL,C;MACZ,IAAI,aAAJ,C;QAAmB,OAAO,KAA
M,W;MAEhC,gBAAgB,C;MAChB,aAAa,KAAM,O;MACnB,SAAS,mBAAc,MAAd,C;;QAEL,iBAAiB,oB;QACj
B,EAAG,gBAAO,KAAP,EAAc,SAAd,EAAyB,UAAW,MAAM,MAA1C,C;QACH,EAAG,gBAAO,UAAU,UAAV
,CAAP,C;QACH,YAAY,UAAW,MAAM,aAAjB,GAAgC,CAAhC,I;QACZ,QAAQ,UAAW,O;;MACd,oBAAY,M
AAZ,IAAsB,aAAtB,C;MAET,IAAI,YAAY,MAAhB,C;QACI,EAAG,gBAAO,KAAP,EAAc,SAAd,EAAyB,MAAz
B,C;;MAGP,OAAO,EAAG,W;K;2CAGd,8B;MA0BgB,Q;MALZ,IAAI,CAAa,YAAZ,WAAY,EAAS,EAAT,CAAb
,IAA+B,CAAa,YAAZ,WAAY,EAAS,EAAT,CAAhD,C;QACI,uBAA+B,QAAR,YAAQ,EAAQ,GAAR,C;QAC/B,
OAAO,KAAM,W5GoB4E,S4GpBnD,WAAO,YAAP,EAAgB,gBAAhB,C5GoBmD,E4GpBhB,W5GoBgB,C;;M4G
jBjF,yBAAK,KAAL,C;MAAA,iB;QAAe,OAAO,KAAM,W;;MAAxC,YAAY,I;MCoLO,gBAAhB,sB;MDjLC,yBt
G2LgF,0BsG3LzD,CtG2LyD,EsG3LhD,WAAM,MtG2L0C,CAAkC,WsG3LlH,C;MACA,yBAAO,uCAAP,C;MA
CA,yBtGyLgF,0BsGzLnD,WAAM,KAAZ,GAAmB,CAAnB,ItGyLyD,EsGzL7B,YtGyL6B,CAAkC,WsGzLlH,C;
MAHJ,OtHlJG,SuHoUqC,W;K;oCD3K5C,wB;MAO6C,qB;QAAA,QAAa,C;MAMxC,Q;MALd,wBAAwB,KAAx
B,C;MtHrIG,SsHsHsIW,qBAAQ,KAAR,C;MAAd,cAAuC,UAAS,CAAb,GAAgB,EAAhB,GAA2B,OAAAH,EAAG,E
AAK,QAAQ,CAAR,IAAL,C;MAC9D,ajI3JgD,gB;MiI4JhD,gBAAgB,C;MAEF,yB;MAAd,OAAc,cAAd,C;QAAc,
uB;QACV,MAAO,WAAU,mBAAN,KAAM,EAAY,SAAZ,EAAuB,KAAM,MAAnC,CAA0C,WAApD,C;
QACP,YAAY,KAAM,MAAM,aAAZ,GAAmB,CAAnB,I;;MAEhB,MAAO,WAAU,mBAAN,KAAM,EAAY,SAAZ
,EAAuB,KAAM,OAA7B,CAAqC,WAA/C,C;MACP,OAAO,M;K;IAgBS,yI;MAAA,wC;MAAA,6B;MAAA,yB;M
AAA,0C;MAAA,oC;MAAA,0C;MAAA,yB;MAAA,6B;MAAA,8B;MAAA,8B;MAAA,kC;K;;;;gEAAA,Y;;;;;iCA
CA,mCAAK,wBAAL,C;cACZ,IAAI,4BAAiB,6BAAS,CAA9B,C;gBACI,gB;gCAAA,iCAAM,wBAAM,WAAZ,O
;oBAAA,2C;yBAAA,yB;gBAAA,Q;;gBADJ,gB;;;;;;;cAEI,M;;qCAGY,C;sCACC,C;cAEjB,gB;;;sCACqB,+B;cACj
B,gB;;8BAAA,iCtGuI4E,mBsGvItE,wBtGuIsE,EsGvItD,oBtGuIsD,EsGvI3C,qBAAW,MAAM,MtGuI0B,CAAkC,
WsGvI9G,O;kBAAA,2C;;uBAAA,yB;cAAA,Q;;;cACA,uBAAY,qBAAAW,MAAM,aAAjB,GAAgC,CAAhC,I;cACZ,
mBAAAQ,qBAAAW,O;cAJvB,KAAKS,qDALT,EAKS,qBALT,OAAKyB,2BAAQ,CAAAR,IALzB,KAKsC,gBALtC,S;gB
AAA,gB;;;;cAAA,gB;;;cAOA,gB;8BAAA,iCtGtGkIgF,mBsGtGlI1E,wBtGtGkI0E,EsGtGjD,oBtGtGiD,EsGtGtC,qBAAW,
MAAM,MtGtGqB,CAAkC,WsGtGlI/C,O;kBAAA,2C;;uBAAA,yB;cAAA,Q;;;cAhBA,OAAgBA,a;;;;;;;;;;;;;;;;;K;IAjBY,sF;
MAAA,yD;uBAAA,6H;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;8CAbpB,wB;MAUuD,qB;QAAA,QAAa,C;MACh
E,wBAA2B,KAA3B,C;MAEA,OAAO,SAAS,gDAAT,C;K;+BAAsBX,Y;MAMyC,OAAA,oBAAAc,W;K;IAEvD,2B
;MAAA,+B;MAmBI,uBAA4B,WAAO,uBAAP,EAAiC,GAAjC,C;MAC5B,2BAAgC,WAAO,SAAP,EAAoB,GAAp
B,C;MAGhC,iCAAsC,WAAO,KAAP,EAAiB,GAAjB,C;K;oDAtBtC,mB;MAIwD,oBAAAM,oBAAAO,OAAAP,C
AAN,C;K;+CAExD,mB;MAIoD,OAAAA,O5GnEyC,S4GmEnB,oB5GnEmB,E4GmEJ,M5GnEI,C;K;0D4GqE7F,mB;M
AI+D,OAAAA,O5GzE8B,S4GyEER,wB5GzEQ,E4GyEW,M5GzEX,C;K;gE4G8E7F,mB;MAAgE,OAAAA,O5G9E6B,S4
G8EP,8B5G9EO,E4G8EkB,M5G9ElB,C;K;;;I4GwDjG,uC;MAAA,sC;QAAA,qB;;MAAA,+B;K;;IA5PA,4C;MAAA,+C
;M;ACkE,kBAAK,OAAL,EAAc,MAAM,MAAN,CAAd,C;K;MADlE,Y;K;IAGA,sC;MAAA,+C;MAC6C,kBAAK,OAA
L,EAAc,UAAd,C;K;MAD7C,Y;K;IA4RO,kG;MAAA,kC;MAAA,8C;MAAA,kC;MAAA,kC;MACH,uBAA+B,a;MA
I/B,sF;MAOA,sBAA0C,I;K;+FAX1C,Y;MAAA,2B;K;+FAAEI,Y;MAAQ,qBAAA,kBN/R8C,CM+RxC,CN/RwC,C
M+R9C,C;K;gGAEZ,Y;MAAA,4B;K;IAY2B,oG;MAAA,kC;MAAS,uB;K;mJACG,Y;MAAQ,OAAA,kBAAAM,O;
K;wGACrC,iB;MAAuC,Q;MAAA,eAAA,kBN/SG,CM+SxC,CN/SwC,CM+S9C,mBAAgB,E;K;;qGAJnE,Y;MACI,IA
AI,2BAAAJ,C;QACI,yH;;MAKJ,OAAO,kC;K;4CAGf,Y;MAMAKJ,OAAO,kC;K;4CAGf,Y;MACI,OAAAYO,SAAZ,
wBAAY,EAAS,kBAAT,EAAoB,kB;K;4mJACG,Y;MAMAM,UAAAV,GAAqB,8BAAU,kBAAAM,MAA7B,kB;MA
AM,MAA7B,CAAArB,GAAA8D,kBAAAM,aAAAN,GAAqB,IAA9E,EAAsG,wBAAtG,C;K;K;gEAAEhB,iB;MA
CI,IAAI,QAAc,iBAAN,kBAAAAN,kBAAAM,CAAAlB,C;;;QACI,YAAAkB,kBAAAM,WAAY,YAAAKAX,C;QAC
AX,C;QACX,sBAAAiB,I;;MACJ,Y;K;wEAACvF,iB;MAAA4C,4C;K;;IA4RO,sG;MAAA,kC;MAAA,8C;MAAA,kC;
MAAA,kC;MAAA,kC;MAAA,kC;MAAA,kC;MAAA,kC;MAAA,kC;MAAA,kC;MAAA,kC;MAAA,kC;MAAA,kC;
MAAA,kC;MACH,uBAA+B,a;MAII/B,sF;MAOA,sBAA0C,I;K;K;gEAAEX,iB;MACI,IAAI,QAAc,iBAAN,2B;;;;;;;;;
IAdxD,uD;MACI,sBAAiB,I;MACjB,YAAY,eAAK,KAAL,C;MACZ,IAAI,aAAJ,C;QAAmB,OAAO,I;MAC1B,YA
AY,aAAAA,KAAM,MAAN,EAAa,sBAAAAY,C;QACI,YAAY,MAAM,MAAN,EAAa,aAAb,C;QACI,YAAY,MAAA
A,MAAAA,MAA7B,mE;;;IA2CJ,iD;MAM+B,U;MAATlC,YAAAL,C;;;;;iD;MAM+B,U;MAATlC,YAAAMAAAKY;;;;
;;;;;;;;;;K;;IAdxD,uD;MACI,sBAAiB,I;MACjB,YAAY,eAAK,KAAL,C;MACZ,IAAI,aAAJ,C;QAAmB,OAAO,I;M
AC1B,YAAY,aAAAAKAAM,MAAN,EAAa,sBAAAYAC;QACI,YAAY,MAAM,MAAN,EAAa,aAAb,C;QACI,YAAY,
MAAAA,MAAAA,MAA7B,mE;;;IA2CJ,iD;MAM+B,U;MAATlC,YAAAMAAAKY;K;K;;;;IAInB,oD;MAAO,oAAO,
QAAQ,CAAR,I;K;K;IAjCiC,oE;M

,IAAI,SAAQ,EAAZ,C;UACI,IAAI,UAAS,WAAY,OAAzB,C;YACI,MAAM,gCAAyB,mCAAzB,C;UAEV,MAAO
,gBAAO,wBAAY,cAAZ,EAAY,sBAAZ,UAAP,C;eACJ,IAAI,SAAQ,EAAZ,C;UACH,IAAI,UAAS,WAAY,OAAz
B,C;YACI,MAAM,gCAAyB,kCAAzB,C;UAEV,IAAI,uBAAY,KAAZ,MAAsB,GAA1B,C;YACI,MAAM,gCAAy
B,4DAAzB,C;UAEV,IAAI,EAAuB,kBAAK,EAAL,CAAvB,0CAAY,KAAZ,EAAJ,C;YACI,MAAM,gCAAyB,mC
AAzB,C;UAEV,eAA2B,eAAZ,WAAY,EAAe,KAAf,EAAsB,KAAM,YAAY,KAAxC,C;UAC3B,iBAAwD,MAAv
C,W5G7KmE,W4G6K7C,K5G7K6C,E4G6KtC,Q5G7KsC,C4G6K5B,C;UAExD,IAAI,cAAc,KAAM,YAAY,KAA
pC,C;YACI,MAAM,8BAA0B,sBAAmB,UAAnB,oBAAA1B,C;UAEV,MAAO,gBAAO,KAAM,YAAN,aAAkB,UA
AlB,CAAP,C;UACP,QAAQ,Q;;UAER,MAAO,gBAAO,IAAP,C;;;MAGf,OAAO,MAAO,W;K;IAGlB,2D;MAEI,Y
AAY,aAAa,CAAb,I;MACZ,iBAAiB,qBAAK,UAAL,IAAmB,E;MAGpC,OAAO,QAAQ,gBAAR,IAAkB,CAAe,k
BAAK,EAAL,CAAf,wCAAK,KAAL,EAAzB,C;QACI,oBAAoB,CAAC,aAAa,EAAb,IAAD,KAAqB,qBAAK,KA
AL,IAAc,EAAnC,K;QACpB,IAAqB,CAAjB,qCAAyB,UAA7B,C;UACI,aAAa,a;UACb,qB;;UAEA,K;;;MAGR,O
AAO,K;K;I5GraX,yB;MAQiB,Q;MADb,aAAa,E;MACb,wBAAa,KAAb,gB;QAAa,WAAb,UAAa,KAAb,O;QACI,
8BAAU,IAAV,C;;MAEJ,OAAO,M;K;IAGX,yC;MAa+B,Q;MAH3B,IAAI,SAAS,CAAT,IAAc,SAAS,CAAvB,IA
A4B,CAAA,KAAM,OAAN,GAAa,MAAb,QAAsB,MAAtD,C;QACI,MAAM,8BAA0B,WAAS,KAAM,OAAf,kB
AA+B,MAA/B,kBAAA1E,C;MACV,aAAa,E;MACc,gBAAAS,MAAT,I;MAA3B,iBAAc,wB;QAACI,8BAAAU,MAAM,KAAN,CAAV,C;QAAA,K;;;MAEJ,OAAO,M;K;IAGX,mC;MAOiB,Q;MADb,aAAa,E;MACb,wBAAa,KAAb,gB;QAAa,WAAb,UAAa,KAAb,O;QACI,8BAAU,IAAV,C;;MAEJ,OAAO,M;K;IAGX,2D;MAY2C,0B;MAAA,a
AAkB,C;MAAAG,wB;MAAA,WAAgB,SAAK,O;MACjF,oCAAa,4BAAmB,UAAnB,EAA+B,QAA/B,EAAyC,SAA
K,OAA9C,C;MACb,aAAa,E;MACb,iBAAc,UAAd,U;QAAA,K;;;M
AEJ,OAAO,M;K;IASkB,gD;MAAA,qB;QAAE,+CAAI,EAAJ,E;O;K;IAN/B,kC;MAMI,OAAO,kBAAU,gBAAV,
EAAkB,+BAAA1B,C;K;IAiBiC,oE;MAAA,qB;QAAE,+CAAI,qBAAAa,EAAAb,IAAJ,E;O;K;IAd9C,wD;MAYqC,0B;
QAAA,aAAkB,C;MAAAG,wB;QAAA,WAAgB,SAAK,O;MAC3E,oCAAAa,4BAAmB,UAAnB,EAA+B,QAA/B,EA
AyC,gBAAAzC,C;MACb,OAAO,kBAAAU,WAAAU,SAAAX,IAAAV,EAAAiC,2CAAAjC,C;K;IAGX,mC;MAQI,OAAO,W
AAW,SAAAX,EAAAiB,CAAAjB,EAAoB,gBAAApB,EAAA0B,KAAA1B,C;K;IAGX,mF;MAeI,0B;QAAA,aAAkB,C;MAAC
lB,wB;QAAA,WAAgB,SAAK,O;MACrB,sC;QAAA,yBAAkC,K;MAAElC,oCAAa,4BAAmB,UAAnB,EAA+B,QA
A/B,EAAAyC,gBAAAzC,EAAoB,OAAA9C,C;MACb,OAAO,WAAW,SAAAX,EAAAiB,CAAAjB,EAAoB,UAAAjB,EAAA6B,QAA7B,EAAAuC,sBAAvC,
C;K;IAGX,sC;MAQI,OAAO,WAAW,SAAAX,EAAAiB,CAAAjB,EAAoB,gBAAApB,EAAA0B,KAAA1B,EAAA5B,KAAA5B,C;K;IAGX,sF;M
AeI,0B;QAAA,aAAkB,C;MAAClB,wB;QAAA,WAAgB,SAAK,O;MACrB,sC;QAAA,yBAAkC,K;MAAElC,oCAAa,
4BAAmB,UAAnB,EAA+B,QAA/B,EAAyC,gBAAAzC,EAAoB,OAAA9C,EAAoB,UAAAjB,EAAA6B,6B,Q
AA7B,EAAAuC,sBAAvC,C;K;uFAGX,qB;MAMwD,OAAA1E,SAAAY,SAAA1C,c;K;mFAEpE,qB;MAWsD,OAAAa,SAAA
Y,SAAA1C,c;K;
uFAElE,qB;MAMwD,OAAA1E,SAAAY,SAAA1C,c;K;mFAEpE,qB;MAWsD,OAAAa,SAAAY,SAAA1C,c;K;yFAElE,qC;MAACoF,OAAAa,SAAA
YAAY,SAAAQ,GAAAR,EAAAa,SAAAb,C;K;iGAEhG,qC;MACwF,OAAAa,SAAAY,aAAA9E,GAAAZ,EAAAiB,SAAAjB,C;K;+F
AEpG,kC;MACiF,OAAAa,iF,YAAA1C,c;K;2FAE7F,wB;MACgE,OAAA1E,gE,UAAA1C,c;K;iFAE5E,iC;MACqE,OAAAa,qE,SAAA1C,c;K;mFAEjF,2C;MACoF,OAAAa,
YAAAY,SAAA1C,U,UAAAV,EAAAsC,YAAAtC,EAAA6B,SAAAtC,c;K;4EAEhG,0B;MACkF,OAAAa,SAAAY,SAAA1C,c;K;wEAEnE,4B;MAGgE,OAAA1E,gE,UAAA1C,c;K;yFAErG,iD;M
AOkD,0B;QAAA,aAAkB,C;MAAAlB,wB;QAAA,WAAgB,SAAK,O;MACrE,OAAAa,iE,YAAA1C,U,OAAAV,EAAAsC,gBAAAtC,E
AAA5B,gBAAA5B,C;K;IAErG,iD;M
AOkD,0B;QAAA,aAAkB,C;MAAAlB,wB;QAAA,WAAgB,SAAK,O;MACpE,OAAAa,SAAAY,SAAA1C,U,OAAAV,EAAAsC,gBAAAtC,EAAA5B,gBAAA5B,C;K;iFAErG,iD;MAOkD,0B;QAAA,aAAkB,C;MAAAlB,wB;QAAA,WAAgB,SAAK,O;MACrE,OAAAa,iE,YAAA1C,U,OAAAV,EAAAsC,gBAAAtC,EAAA5B,gBAAA5B,C;K;IAEtG,iD;M
AOkD,0B;QAAA,aAAkB,C;MAAAlB,wB;QAAA,WAAgB,SAAK,O;MACpE,OAAAa,SAAAY,SAAA1C,U,OAAAV,EAAAsC,gBAAAtC,EAAA5B,gBAAA5B,C;K;iFAErG,iD;M
AOkD,0B;QAAA,aAAkB,C;MAAAlB,wB;QAAA,WAAgB,SAAK,O;MACrE,OAAAa,iE,YAAA1C,U,OAAAV,EAAAsC,gBAAAtC,EAAA5B,gBAAA5B,C;K;IAErG,iD;M
AOkD,0B;QAAA,aAAkB,C;MAAAlB,wB;QAAA,WAAgB,SAAK,O;MACpE,OAAAa,SAAAY,SAAA1C,U,OAAAV,EAAAsC,gBAAAtC,EAAA5B,gBAAA5B,C;K;IAItG,iD;MAWI,0B;QAAA,aAAkB,C;MAAAlB,wB;QAAA,WAAgB,SAAK,O;MACvB,0B;QAAA,aAAkB,C;MAAApB,wB;QAAA,WAAgB,SAAQ,OAAR,GAAe,MAAf,G;MAChE,oCAAAa,4BAAmB,UAAnB,EAA+B,QAA/B,EAAyC,gBAAAzC,C;MACb,OAAAa,YAAAY,aAAA9E,GAAAZ,EAAAiB,6B,UAAAjB,EAAA6B,YAAA7B,C;K;IAErG,iD;M
AOkD,0B;QAAA,aAAkB,C;MAAAlB,wB;QAAA,WAAgB,SAAK,O;MACpE,OAAAa,SAAAYAAY,aAAA9E,GAAAZ,EAAAiB,SAAAjB,C;K;uFAGX,qB;MAMwD,OAAAa,SAAAY,SAAA1C,c;K;IAEpE,qB;MASI,MAAwD,OAAAa,SAAAY,SAAA1C,c;c;K;mFAEpE,qB;M
AWsD,OAAAa,SAAAY,SAAA1C,c;K;uFAElE,qB;MAMwD,OAAAa,SAAAY,SAAA1C,c;K;yFAGX,iC;MACoF,OAAAa,SAAAY,SAAA1C,c;K;IAIf,4C;MAOqF,oCAAAa,4BAAmB,KAAlB,C;K;IAErF,wD;MASI,MAAAa,OAAAa,W,UAAAJ,GAAAC,E,4BAAAL,SAAAK,EAAA4B,EAAA5B,CADF,GAGE,kBAAAL,SAAAK,EAAAkB,EAAAlB,CADF,C;K;K;IAIkD,oD;MAAAa,UAAU,OAAAe,UAAAf,EAAAiB,GAAAE,EAAAkB,KAAAlB,C;K;IAG9B,mC;MAAAe,UAAU,OAAAe,UAAAf,EAAAiB,GAAAE,EAAAkB,KAAAlB,C;K;KAGpB,sC;MAWI,OAAAa,YAAAe,UAAAf,EAAAiB,GAAAF,EAAA6B,EAAAAA,KAAA7B,C;K;

yBAAc,CAAd,EAAiB,MAAjB,EAAyB,CAAzB,EAA4B,MAAO,OAAnC,EAA2C,UAA3C,C;K;IAGf,iE;MAIqE,0
B;QAAA,aAAsB,K;MACvF,IAAI,CAAC,UAAL,C;QACI,O9G2LqF,qB8G3L7D,M9G2L6D,E8G3LrD,U9G2LqD,
C;;Q8GzLrF,OAAO,yBAAc,UAAd,EAA0B,MAA1B,EAAkC,CAAlC,EAAqC,MAAO,OAA5C,EAAoD,UAApD,
C;K;IAGf,iD;MAIkD,0B;QAAA,aAAsB,K;MACpE,IAAI,CAAC,UAAL,C;QACI,O9GmLoE,mB8GnL9C,M9Gm
L8C,C;;Q8GjLpE,OAAO,yBAAc,mBAAS,MAAO,OAAhB,IAAd,EAAsC,MAAtC,EAA8C,CAA9C,EAAiD,MAA
O,OAAxD,EAAgE,UAAhE,C;K;IAGf,mC;MAGI,aACa,S9G0L2D,O8G1LhD,K9G0LgD,C;M8GzLxE,OAAO,kB
AAkB,MAAO,OAAP,KAAe,C;K;IAG5C,4B;MAKoD,gCAAU,C;MAAV,U;QAAuB,kBAAR,yB;QAAQ,c;;UrH2n
DvD,U;UADhB,IAAI,0CAAsB,qBAA1B,C;YAAqC,aAAO,I;YAAP,e;;UACrB,+B;UAAhB,OAAgB,gBAAhB,C;Y
AAgB,2B;YAAM,IAAI,CqH3nD4D,aAAT,qBrH2nDxC,OqH3nDwC,CAAS,CrH2nDhE,C;cAAyB,aAAO,K;cAAP
,e;;;UAC/C,aAAO,I;;;QqH5nDgE,iB;;MAAvB,W;K;IAEpD,gD;MASiD,0B;QAAA,aAAsB,K;MAOxC,Q;MAN3B,
IAAI,iBAAJ,C;QAAkB,OAAO,a;MACzB,IAAI,aAAJ,C;QAAmB,OAAO,K;MAC1B,IAAI,CAAC,UAAL,C;QAAi
B,OAAO,kBAAQ,KAAR,C;MAExB,IAAI,SAAK,OAAL,KAAe,KAAM,OAAzB,C;QAAiC,OAAO,K;MAEb,OA
AL,SAAK,O;MAA3B,iBAAc,CAAd,wB;QACI,eAAe,qBAAK,KAAL,C;QACf,gBAAgB,iBAAM,KAAN,C;QACh
B,IAAI,CAAU,SAAT,QAAS,EAAAO,SAAP,EAAAkD,UAAlB,CAAd,C;UACI,OAAO,K;;;QqH5nDgE,iB;;MAAvB
,W;K;IAEpD,gD;MQ5nSiD,0B;QAAA,aAAsB,K;MO4nSxC,Q;MN3B,IAAI,iBAAJ,C;QAAkB,OAAO,a;MACzB,I
AAI,aAAJ,C;QAAmB,OAAO,K;MAC1B,IAAI,CAAC,UAAL,C;QAAiB,OAAO,kBAAQ,KAAR,C;MJnL9C;MK;kH
;MACkH,0B;QAAA,aAAsB,K;MACpI,oCAAkB,UAAlB,EAA8B,KAA9B,EAAqC,WAArC,EAAkD,MAAlD,EA
A0D,UAA1D,C;K;IAGJ,+B;MAYI,OxGmMmD,mBAAS,CwGnM5D,G9GwH4F,oB8GxHzD,C9GwHyD,E8GxHt
D,C9GwHsD,CAvC9B,c8GjFrC,G9GqHoD,oB8GrHZ,C9GqHY,C8GrH7E,GAAyE,S;K;IAG7E,iC;MASI,OxGuL
mD,mBAAS,CwGvL5D,G9G4G4F,oB8G5G5zD,C9G4GyD,E8G5GtD,C9G4GsD,CAlB9B,c8G1FrC,G9GyGoD,oB
8GzGZ,C9GyGY,C8GzG7E,GAAyE,S;K;IAG7E,8B;MAOiB,IAAN,I;M3H/FP,IAAI,E2H8FI,KAAK,C3H9FT,CA
AJ,C;QACI,c2H6Fc,oD;Q3H5Fd,MAAM,gCAAyB,OAAQ,WAAjC,C;;M2H6FH,QAAM,CAAN,C;aACH,C;UAA
K,S;UAAL,K;aACA,C;UAAU,OAAL,SAAK,W;UAAV,K;;UAEI,aAAa,E;UACb,IAAI,ExGgKoC,qBAAU,CwGh
K9C,CAAJ,C;YACI,C;UACI,QAAQ,SAAK,W;UYACb,YAAY,C;UACZ,OAAO,IAAP,C;cACI,IAAI,CAAC,QA
AU,CAAX,MAAiB,CAArB,C;gBACI,UAAU,C;;cC;cAEd,QAAQ,UAAAW,C;ccACnB,IAAI,UAAS,CAAb,C;g
BACI,K;;ccAEJ,KAAK,C;;;;UAGb,OAAAO,M;;MAnBf,W;K;IAwBJ,4D;MAOqE,0B;QAAA,aAAsB,K;MACvF,O9
GkFiG,kB8G5GlFnF,WAAO,6BAAM,gBAAO,QAAP,CAAb,EAAmC,UAAJ,GAAgB,KAAhB,GAA2B,IAA1
D,C9GkFmF,E8G5GlFlB,6BAAM,iCAAwB,QAAxB,C9G5GkFY,C;K;I8GhFrG,4D;MAM+D,0B;QAAA,aAAsB,K
;MACjF,O9GyEiG,kB8G5FGzEnF,WAAO,6BAAe,oBAAO,QAAP,CAAf,EAA6C,UAAJ,GAAgB,KAAhB,GAA2
B,IAApE,C9GyEmF,E8G5FGA,oBAAO,QAAP,C9G5FGA,C;8GA9EQ,C;K;I8GhFvG,iE;MAC0E,0B;QAAA,aAAs
B,K;MACxF,O9GiEiG,kB8G5EpEnF,WAAO,6BAAM,gBAAO,QAAP,CAAb,EAAmC,UAAJ,GAAgB,KAAhB,
GAA2B,IAA1D,C9GiEmF,E8G5EpEnB,6BAAM,iCAAwB,QAAxB,C9G5EoEc,C;K;I8GhEnrG,iE;MAC2E,0B;QAA
A,aAAsB,K;MACtF,O9GiDEiG,kB8G5DGjEnF,WAAO,6BAAe,oBAAO,QAAP,CAAf,EAA6C,UAAJ,GAAgB,K
AAhB,GAA2B,IAApE,C9GiDmF,E8G5DGA,oBAAO,QAAP,C9G5DGEE,C;K;I8G9GOrG,kD;MAEI,IAAI,gBAA
J,C;QAAsB,MAAM,6BAAYyB,qCAAkC,QAAQ,CAAAR,IAAlC,CAAAzB,C;MAC5B,OAAO,CAAC,IAAD,
I;K;IAGX,iF;MAQI,IAAI,EAAS,KAAT,oBAAiB,KAAjB,GAA2B,SAAS,QAAAxC,C;MACxC,OAAO,UAAU,
CAAV,EAAa,KAAb,EAAoB,gBAApB,C;;MAEX,UAA U,kBAAO,KAAP,C7GwBgC,I;M6GvB1C,IAAI,EAAQ,
KAAR,kBAAgB,KAAhB,CAAAJ,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;;MAEX,O
AAO,SAAW,CAAAC,OAAS,IAAV,KAAqB,EAAA,hC,IAAwC,MAAAQ,I;K;IAG3D,yE;MAQI,IAAI,SAA
U,EAAV,MAAkB,CAAAlB,IAAuB,SAAS,QAApC,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,g
AApB,C;;MAEX,YAAY,KAAa,CAAAP,KAAO,C;MACzB,IAAI,SAAU,GAAV,MAAAkB,iB,IAAuB,SAAS,Q
AApC,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;;MAEX,OAAQ,SAAU,GAAV,MAA
Ai,cAArB,C;QACI,IAAAo,SAAU,GAAV,MAAAiB,EAArB,C;UACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAo
B,gBAApB,C;;MAGX,YAAY,KAAa,CAAAP,KAAO,C;UAAJ,GAAgB,KAAhB,GAA2B,IAAW,C;MAC7B,I
AAI,SAAU,GAAV,MAAkB,CAAX,QAAQ,CAAAR,IAAb,CAAAjB,C;QACI,OAAO,UAAU,CAAV,EAAa,K
AAb,EAAoB,gBAApB,C;;MAEX,YAAY,KAAa,CAAAP,KAAO,C;O;K;IAG1D,yE;MASI,IAAI,SAAS,QAAb,C;
QACI,U

AAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;;MAGJ,YAAY,KAAa,CAAP,KAAO,C;MACzB,IAAI,SAAU,EA
AV,MAAiB,CAArB,C;QACI,IAAI,SAAU,GAAV,KAAkB,GAAtB,C;UAEI,OAAO,UAAU,CAAV,EAAa,KAAb,
EAAoB,gBAApB,C;;aAER,IAAI,SAAU,EAAV,MAAiB,CAArB,C;QACH,IAAI,SAAU,GAAV,MAAkB,GAAtB,
C;UAEI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;;aAER,IAAI,SAAU,EAAV,IAAgB,CAApB,C;Q
ACH,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;aACJ,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;QA
CH,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;;MAGX,IAAI,SAAQ,CAAR,UAAa,QAAjB,C;QACI
,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;;MAEX,YAAY,KAAiB,CAAX,QAAQ,CAAR,IAAW,C
;MAC7B,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;
;MAGX,IAAI,SAAQ,CAAR,UAAa,QAAjB,C;QACI,OAAO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;;M
AEX,YAAY,KAAiB,CAAX,QAAQ,CAAR,IAAW,C;MAC7B,IAAI,SAAU,GAAV,MAAkB,GAAtB,C;QACI,OA
AO,UAAU,CAAV,EAAa,KAAb,EAAoB,gBAApB,C;;MAEX,OAAQ,SAAU,EAAX,GAAoB,SAAU,EAA9B,GA
AuC,SAAU,CAAjD,GAAwD,KAAxD,GAAkE,O;K;;;IAmB7E,oE;MAkB0B,UAGJ,MAHI,EAKJ,MALI,EAMJ,M
ANI,EASJ,MATI,EAUJ,MAVI,EAWJ,MAXI,EAgBA,MAhBA,EAiBA,MAjBA,EAkBA,MAlBA,EAoBA,MApBA
,EAqBA,OArBA,EAsBA,OAtBA,EAuBA,O;M5H9JtB,IAAI,E4HgII,cAAc,CAAd,IAAmB,YAAY,MAAO,OAAtC
,IAAgD,cAAc,Q5HhIlE,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAyB,OAAQ,WAAjC,C;;M4HgIV,YAAY,cA
AU,CAAC,WAAW,UAAX,IAAD,IAA0B,CAA1B,IAAV,C;MACZ,gBAAgB,C;MAChB,gBAAgB,U;MAEhB,OA
AO,YAAY,QAAnB,C;QACI,WAAW,mBAAO,gBAAP,EAAO,wBAAP,Q7G1H2B,I;Q6G4HlC,WAAO,GAAP,C;
UACI,MAAM,kBAAN,EAAM,0BAAN,YAA0B,OAAAL,IAAK,C;eAC9B,WAAO,IAAP,C;UACI,MAAM,kBAAN,
EAAM,0BAAN,YAA4C,OAArB,QAAS,CAAV,GAAgB,GAAM,C;UAC5C,MAAM,kBAAN,EAAM,0BAAN,YA
A+C,OAAAxB,OAAS,EAAV,GAAgB,GAAM,C;eAEnD,WAAO,KAAP,IAAiB,QAAQ,KAAzB,C;UACI,MAAM,k
BAAN,EAAM,0BAAN,YAA6C,OAAAtB,QAAS,EAAV,GAAgB,GAAM,C;UAC7C,MAAM,kBAAN,EAAM,0BA
AN,YAAuD,OAA/B,QAAS,CAAV,GAAgB,EAAlB,GAAwB,GAAM,C;UACvD,MAAM,kBAAN,EAAM,0BAAN,
YAA+C,OAAAxB,OAAS,EAAV,GAAgB,GAAM,C;;UAG/C,MAAM,kBAAN,EAAM,0BAAN,YAA+B,OAAAxB,
OAAS,EAAV,GAAgB,GAAM,C;;UAG/C,MAAM,kBAAN,EAAM,0BAAN,YAAuB,OAAA/B,QAAS,CAAV,GAA
iB,EAAlB,GAAA2B,GAA2B,GAAM,C;UAC7C,MAAM,kBAAN,EAAM,0BAAN,YAAqB,0BAArB,uBAAuB,MA
AvB,EAAA+B,EAAA+B,IAAA/B,EAAAqC,C;SAArC,EAAgD,QAAAhD,QAAAhD,EAAA0D,gBAAA,C;U4HhEhB,I
AAI,aAAa,CAAjB,C;QACI,MAAM,mBAAN,EAAM,0BAAN,YAA2B,aAA6D,OAAArC,OAAArC,EAAAqC,C;Y
ACI,MAAM,mBAAN,EAAM,0BAAN,YAAqB,0BAArB,uBAAuB,MAAvB,EAAA+B,EAAA+B,IAAA/B,EAAAqC,
C;SAArC,EAAgD,QAAAhD,QAAAhD,EAAA0D,gBAAA,C;UACI,MAAM,mBAAN,EAAM,0BAAN,YAAqB,0
BAArB,uBAAuB,MAAvB,EAAA+B,EAAA+B,IAAA/B,EAAAqC,C;SAArC,EAAgD,QAAAhD,QAAAhD,EAAA0
D,gBAAA,C;;UAGJ,MAAM,mBAAN,EAAM,0BAAN,YAAqB,0BAArB,uBAAuB,MAAvB,EAAA+B,EAAA+B,IA
AA/B,EAAAqC,C;SAArC,EAAgD,QAAAhD,QAAAhD,EAAA0D,gBAAA,C;;UAGJ,6B;;;;MAMhB,OAAAW,KA
AM,OAAAN,KAAc,SAAA1B,lB,GAAA6B,KAAA7B,EAAA8C,KAAc,KAAA9C,GAAA6D,C;K;;IAQzD,mE;MAi
ByB,Q;M5H9LrB,IAAI,E4HwLI,cAAc,CAAd,IAAmB,YAAY,MAAO,OAAtC,IAAgD,cAAc,Q5HxLxL/D,CAA
J,C;QACI,cAda,qB;QAeb,MAAM,gCAAyB,OAAQ,WAAjC,C;;M4HwLV,gBAAgB,U;MAChB,U;MAChB,oBAA
oB,sB;MAEpB,OAAO,YAAY,QAAnB,C;QACI,WAAW,KAAmB,CAAb,gBAAa,EAAb,wBAAa,O;QAE1B,IAA
I,YAAY,CAAR,CAAR,C;UACI,aAAa,YAAY,OAAO,OAAnB,IAAgD,IAAb,IAAgB,EAAb,GAAA4B,IAAa,CA
Ac,EAAd,GAAiB,CAAjB,GAAoB,CAAc,gBAAA5B,jD,C;UACX,IAAA4B,QAAAQ,CAAAR,EAAAyB,KAAAzB,
GAAA0B,C;UACI,gBAAAxB,KAAA,gBAAAwB,O;;UAGJ,gBAAA1B,KAAA,gBAAA2B,O;SAER,IAAI,YAAY,
QAAZ,IAAwB,IAAa,EAAb,GAAAtB,IAAa,CAAlC,C;UACI,cAAc,YAAY,OAAO,OAAnB,IAAgD,IAAb,IAAg
B,EAAb,GAAAC,IAAa,CAAc,EAAd,GAAiB,CAAjB,GAAoB,CAAc,gBAAAD,jD,C;UACX,IAAAC,QAAAQ,CAA
AR,EAAAyB,KAAAzB,GAAA0B,C;UACI,gBAAAxB,KAAA,gBAAAwB,O;;UAGJ,gBAAA1B,KAAA,gBAAA2B,
O;SAER,IAAI,YAAY,QAAZ,IAAwB,IAAa,EAAb,GAAAtB,IAAa,CAAlC,C;UACI,cAAc,YAAY,OAAO,OAA
nB,IAAgD,IAAb,IAAgB,EAAb,GAAAC,IAAa,CAAc,EAAd,GAAiB,CAAjB,GAAoB,CAAc,gBAAAD,jD,C;UA
CX,IAAAC,QAAAQ,CAAAR,EAAAyB,KAAAzB,GAAA0B,C;UACI,gBAAAxB,KAAA,gBAAAwB,O;;UAGJ,g
BAAA1B,KAAA,gBAAA2B,O;SAER,IAAI,WAAY,MAAD,GAAQ,KAAR,IAAqB,EAArB,GAAA2B,EAArB,G
AAA2B,C;UACtC,UAAU,SAAAS,IAAAV,GAAAoB,K;UAC9B,aAAAa,KAAAb,GAAAW,C;UACI,gBAAAxB,K
AAA,gBAAAwB,O;;UAGJ,gBAAA1B,KAAA,gBAAA2B,O;;;UAIJ,UAAU,UAAAV,GAAA0B,C;UACA,aAAAa,K
AAA,gBAAAwB,xB,C;;;;MAMhB,OAAAK,KAAM,OAAAA,aAAc,W;K;ICtQzB,uC;MAU2D,OAAAwB,CAAAx
B,EAAA2B,wB,C;;MAAS,SAAT,C;K;IAEnF,oC;MAKI,OAAAQ,QAAAQ,OAAAW,mBAAAL,SAAAK,CAAA
X,C;K;IAGZ,6C;MAMI,IAAI,cAAAA,SAAAb,C;QACI,iBAAAsB,SAAAAY,Y;QACIC,IAAAkB,kBAAAJ,C;UAC
S,SAAAL,eAAAA,iBAAAc,SAAAd,E;;UAE/B,WAAAA,UAAAA,WAAAI,SAAAJ,C;;;K;IAI9E,iC;MACI,MACAC,
gBAAAqB,sB;MAAAaC,CAAA9D,EAAAiC,C;K;IAI9E,iC;MACI,MACAA,gBAAAqB,sB;MAAAaC,CAAA9D,EAAA
iC,C;K;

CrB,iBAAsB,E;MACtB,kBAA+B,E;MAC/B,uBAAiC,C;K;uDAEjC,qB;MACc,qBAAV,SAAU,EAAc,EAAd,EAA
kB,EAAlB,C;MACV,OAAO,aAAO,W;K;gDAGlB,qB;MAA6D,gBAAR,c;MAAQ,c;;Q3I41Y7C,Q;QAAhB,wBA
AgB,SAAhB,gB;UAAgB,cAAA,SAAhB,M;UAAsB,IAAc,O2I51Y+B,c3I41Y7C,C;YAAwb,aAAO,I;YAAP,e;;;Q
AC9C,aAAO,K;;;M2I71Y8C,iB;K;sDAErD,wC;MACI,KAAK,qBAAL,SAAK,EAAc,MAAd,EAAsB,SAAtB,CAA
L,C;QAAyC,M;MAEzC,YAAY,SAAK,M;MACjB,OAAO,aAAP,C;QACI,KAAM,qBAAN,KAAM,EAAc,MAAd,
EAAsB,aAAtB,CAAN,C;UAA8C,M;QAC9C,QAAQ,KAAM,M;;K;sDAItB,wC;MASgB,IAAiB,IAAjB,EA2BE,M;
MAnCd,aAAO,gBAAO,MAAP,CAAe,gBAAO,SAAP,C;MACtB,gBAAgB,SAAK,W;MACrB,IAAI,eAAQ,SAAR,
CAAJ,C;QACI,aAAO,gBAAO,kCAAP,CAA2C,gBAAO,SAAP,CAAkB,gBAAO,KAAP,C;QACpE,OAAO,K;;MA
EH,cAAY,MAAK,SAAL,C;MAEpB,YAAY,CAAiB,OAAZ,SAAY,MAAjB,2D;MACZ,IAAI,aAAJ,C;Q1HyBG,S0
HxBwB,WAAN,KAAM,EAAQ,SAAR,C;QAAvB,iBAAoD,KAAK,CAAT,GAAY,CAAZ,GAAmB,KAAe,gBAAf,
I;QACnE,IAAI,eAAc,CAAlB,C;UAAqB,aAAO,gBAAO,SAAP,CAAkB,gBAAO,IAAP,C;QAC9C,IAAI,e1G8Mo
C,YAAU,C0G9MlD,C;UACI,kBAAW,K;K;UACX,uBAAgB,U;;UAEhB,QAAQ,wBAAiB,KAAjB,EAAwB,UAAxB,
C;;QAEZ,IAAI,M1GgNuC,UAAS,C0GhNpD,C;UAEuB,U;UAAA,IAAI,eAAc,CAAlB,C;YAAA,SAAqB,C;;Y3Gq
+BpC,U;YADhB,YAAY,C;YACI,oB2Gr+B+C,S3S3Gq+B/C,C;YAAhb,OAAgB,gBAAhB,C;cAAgB,cAAA,gbsC;cAAM,I2Gr+BApb,gbI2Gr
+BgE,U3Gq+B/BlD,oB2Gr+B/BkD,MAAK,E3Gq+BArE,C;YC;gBAAwb,qB;;Y2Gr+B/B,SAA4B,I3Gs+BgE,BpD,K2Gt+BoD,I;;U
AA/C,yB;U7GorCC,kB;UADb,YAAY,C;UACC,S6GnrCK,aAAN,KAAM,C7GmrCL,W;UAAb,OAAa,gBAAb,C;
YAAa,wB;Y6GlrCG,I7GkrCU,oBAAmB,cAAnB,EAAmB,sBAAnB,U6GlrCN,gBAAJ,C;cAA2B,aAAO,uB;YAACl
C,aAAO,gB7GirCgC,C6GI6GjrChC,CAAa,gBAAO,IAAP,C;;;UAGxB,aAAO,gBAAO,KAAP,CAAc,gBAAO,IAAP,C;;
;QAGzB,aAAO,gBAAO,SAAP,CAAkB,gBAAO,IAAP,C;;MAG7B,iBAAiB,mC;MACjB,IrIuHoD,CqIvHhD,UrIu
HiD,UqIvHrD,C;QACI,uBAAuB,SAAS,M;QACtB,8B;QAAV,OAAU,gBAAV,C;UAAU,qB;UAACJ,qBAAF,CAAE
,EAAc,gBAAd,EAAgC,cAAhC,C;;;MAGV,OAAO,I;K;yDAGX,6B;MAIwB,Q;MAHpB,mBAAwB,C;MACxB,gB
AAqB,C;MACrB,mBAAwB,C;MACJ,OzHyIjB,MAAO,KyHzIgB,eAAS,OAAT,GAAkB,oBAAlB,IzHyHlB,EyHzHI
iD,KAAM,OAAN,GAAe,UAAf,IzHyIjD,C;MyHzHIV,eAAY,CAAZ,oB;QACI,QAAQ,iBAAY,iBAAN,KAAM,CA
AN,GAAAkB,GAAAlB,IAAN,C;QACR,IAAI,MAAK,2BAAAkB,iBAAAT,eAAS,CAAT,GAAaqB,GAAAArB,IAAN,C;
C;UAA6C,M;MAEzC,YAAY,SAAK,M;Q1HyBG,S0HxBwB,WAAN,KAAM,EAAQ,SAAR,C;QAAvB,iBAAoD,KAAK,CAAT,GAAY,CAAZ,GAAmB,KAAe,gBAAf,I;

rC,UAAW,cAAX,GAAmB,UAAW,cAAO,C;QAClD,aAAa,eAAQ,KAAR,C;QAET,sBAAS,KAAT,GAAkB,KAAl
B,E;UAA2B,a;aAC3B,uBAAQ,CAAR,C;;;;aAIR,0BAAsB,CAAtB,C;QAA2B,iBAA8C,uBAArC,UAAW,cAAX,G
AAmB,UAAW,cAAO,CAA9C,C;;QACnB,Y;MAXZ,W;K;ICrDJ,+B;MAAA,mC;MAUuB,wB;MALf,aAAR,OAA
O,OAAQ,KAAI,WAAY,IAAG,OAAO,SAAX,IAAwB,CAAC,CAAC,OAAO,SAAS,K;MADpE,sBAGQ,MAHR,G
AIQ,iBAAa,OAAb,CAJR,GAMQ,qBAAW,OAAX,IAAA,4GACO,+B;K;4CAIf,Y;MAAmC,OAAA,mBAAa,U;K;;
;IAfpD,2C;MAAA,0C;QAAA,yB;;MAAA,mC;K;IAwB2B,+B;MAAC,sB;K;IAEW,+D;MAAA,0C;MAAS,mB;M
ACxC,iBAAgB,yBAAQ,S;K;8DACxB,Y;M7HyEG,Q6HxEC,8BAAQ,QAAO,cAAP,C;MAAyB,c9IZlC,EAAI,CA
AJ,C;M8IY2C,Y9IuF3C,EAAI,CAAJ,C;M8IvFC,OAA4D,aAAR,OAAQ,qCAAR,aAAiD,aAAN,KAAM,yCAAjD,
C;K;;qCAH5D,Y;MAAmC,mD;K;sCAMnC,Y;MAAkC,qC;K;;IAKF,4C;MAAiC,4E;MAAhC,8B;K;2CACjC,Y;M
AA8B,OAAA,gBAAY,M;K;+CAC1C,Y;MAAkC,2C;K;;IAGtC,6B;MAAA,iC;MAEoC,4E;K;uCAChC,Y;MAA8B
,OAAe,U;K;2CAC7C,Y;MAAkC,+B;K;;;IAJtC,yC;MAAA,wC;QAAA,uB;;MAAA,iC;K;IC1CA,gD;MAQ+B,kBA
ApB,wBAAc,IAAd,C;MAA0B,I9HgEjC,a;M8HhHEA,O9HiEO,W;K;I8H9DX,gD;MAQqD,kBAAA1B,gBAAhB,sCA
AgB,EAAc,IAAd,EAAoB,IAApB,C;MAAiC,sB9HoElD,W8HpEkD,C;MAAxD,O9HqEO,W;K;I+HzFX,yC;MAEk
D,8B;MAAA,OCGN,aDHwB,yBAAa,QAAb,mCCGxB,ChH+xBgC,sB;K;I+GhyB5E,2C;MhJggIW,kBAAY,gB;M
AoGH,Q;MAAhB,wBgJ7lIqB,UhJ6lIrB,gB;QAAgB,cgJ7lIK,UhJ6lIrB,M;QAAsB,IAAI,CgJ7lIkB,sBhJ6lIP,OgJ7lI
O,ChJ6lItB,C;UAAyB,WAAY,WAAI,OAAJ,C;;MgJ7lI3D,qBhJ8lIO,W;MgJ7lIP,I1IgNwD,C0IhNpD,c1IgNqD,U0
IhNzD,C;Q/GgKuC,U;Q+G/JnC,qB/G+JyD,OAAtB,+B+G/Jd,mB/G+Jc,uBAAsB,CAAO,W;QuGkO7C,kBAAhB,s
B;QQ/XC,0C;QACA,IAAI,E/G8QoC,0BAAU,C+G9Q9C,CAAJ,C;UACI,2BAAO,GAAP,C;;QAEW,sCAAa,GAA
b,C;QALnB,sB/H4DG,WuHoUqC,W;QQzXxC,OAAO,I;;MAGX,OAAO,K;K;IAGX,8C;MAOmB,c;;QhJi3YC,Q;
QAAhB,wBgJh3YI,UhJg3YJ,gB;UAAgB,cgJh3YZ,UhJg3YJ,M;UAAsB,IgJh3YD,sBhJi3Ye,OgJj3Yf,ChJi3YC,C;YA
AwB,aAAO,I;YAAP,e;;;QAC9C,aAAO,K;;;MgJl3YP,e;K;;;MgJl3YP,e;QACI,kBAAA6B,MAAX,UAAW,C;Q/GyIM,U;Q+G+GxIb,a/
GwImC,OAAtB,+B+GxIvB,mB/GwIuB,uBAAsB,CAAO,W;Q+GxIX,CAAO,W;Q/GywImC,CAAC,ChHg1C6C,uBA
AzB,CAAyB,C;QbnmB9E,kBAAS,gB;QA2FA,U;QAAA,+B;QAAhB,OAAgb,gBAAhB,C;UAAgb,6B;QAAhb,C;UAAM,I4
HzyB4C,4B5HyyB, WAAY,WAAI,SAAJ,C;;MAAM,I4HzyB4C,4B5HyyB8B,S4HzyB8B,C5HyyB5C,C;YAAwB,aAAwB,
SAAJ,C;;;Q4HzyBtD,a;M5HyyB5C,e;YAAMQ,4B;M;Z;YQ4HzyBtD,s;M

Y,KAAZ,C;K;oIC7a1E,4H;MAE8C,qB;QAAA,QAAiB,E;MAAI,6B;QAAA,gBAAgC,E;MAAW,iC;QAAA,oBAA
2D,E;MAAW,iC;QAAA,oBAA2D,E;MAAW,qC;QAAA,wBAmJvJ,U;;MAnJqO,+B;QAAA,kBAmJrO,U;;MAnJ6
S,4B;QAAA,eAA+B,S;MAC3a,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,eAAF,IAAqB,a;MACrB,E
AAE,mBAAF,IAAyB,iB;MACzB,EAAE,mBAAF,IAAyB,iB;MACzB,EAAE,uBAAF,IAA6B,qB;MAC7B,EAAE,i
BAAF,IAAuB,e;MACvB,EAAE,cAAF,IAAoB,Y;MACpB,OAAO,C;K;wIAYX,mC;MAEgD,2B;QAAA,cAAuB,E;
MAAI,0B;QAAA,aAAsB,E;MAC7F,QAAQ,E;MACR,EAAE,aAAF,IAAmB,W;MACnB,EAAE,YAAF,IAAkB,U;
MAClB,OAAO,C;K;8HAkEX,+D;MAEqG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAA
A,WAAqB,K;MAC/K,QAAQ,E;MACR,EAAE,aAAF,IAAmB,W;MACnB,EAAE,SAAF,IAAe,O;MACf,EAAE,SA
AF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;4HAwBX,iE;M
AE0C,4B;QAAA,eAAwB,E;MAAI,wB;QAAA,WAAyB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAA
uB,K;MAAO,wB;QAAA,WAAqB,K;MAC/K,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IA
AgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,
OAAO,C;K;sGAUqE,qB;MAAQ,OAAW,U;K;sGAEnB,qB;MAAQ,OAAW,U;K;4GAEhB,qB;MAAQ,OAAc,a;K;
wGAS1B,qB;MAAQ,OAAY,W;K;0HAEX,qB;MAAQ,OAAqB,oB;K;kGASnD,qB;MAAQ,OAAS,Q;K;oGAEhB,q
B;MAAQ,OAAU,S;K;sGAEjB,qB;MAAQ,OAAW,U;K;wHAEV,qB;MAAQ,OAAoB,mB;K;wHAE5B,qB;MAAQ,
OAAoB,mB;K;kHAE/B,qB;MAAQ,OAAiB,gB;K;kHAEzB,qB;MAAQ,OAAiB,gB;K;oHASd,qB;MAAQ,OAAkB,
iB;K;oHAE1B,qB;MAAQ,OAAkB,iB;K;oHAE1B,qB;MAAQ,OAAkB,iB;K;wIAEhB,qB;MAAQ,OAA4B,2B;K;4
FC1MnI,uD;MAE8B,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;
QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAChJ,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,
QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;M
AChB,OAAO,C;K;kGAuBX,sE;MAEiC,6B;QAAA,gBAA8B,I;MAAM,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,S
AAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACvL,QAA
Q,E;MACR,EAAE,eAAF,IAAqB,a;MACrB,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,S
AAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;kGA8DX,8U;
MAEiC,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UA
AgB,C;MAAG,sB;QAAA,SAAiB,C;MAAG,uB;QAAA,UAAkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QA
AA,SAAkB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAA
O,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAA
uB,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;Q
AAA,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;
MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAu
B,K;MAAO,wB;QAAA,WAAqB,K;MAC3wB,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,
O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,I
AAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,
UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB,gB;
MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,gBAAF,IAAsB,c;MACtB,E
AAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,eAAF,I
AAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MA
CZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IA
AgB,Q;MAChB,OAAO,C;K;wGAgDX,kQ;MAEoC,uB;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO
,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6
B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAA
A,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,8B;QAAA,iBAA2B,K;MA
AO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,
K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC7lB,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;
MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAA
F,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,gBAAF,IAAs
B,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IAA0B,kB;MAC1B,

EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,MAA
F,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,E
AAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;kGAsCX,iX;MAEiC,sB;QAAA,SAAkB,G;MAAK,sB;QAAA,SAAkB
,G;MAAK,sB;QAAA,SAAkB,G;MAAK,yB;QAAA,YAAkB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,
UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,sB;QAAA,SAAiB,C;MAAG,uB;Q
AAA,UAAkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAAA,SAAkB,I;MAAM,uB;QAAA,UAAoB,K;MAA
O,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA
6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QA
AA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;M
AAO,8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SA
Ae,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACr2B,QAA
Q,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,QAAF,IAAc,M;MACd,EAAE,QAAF,IAAc,M;MACd,EAAE,W
AAF,IAAiB,S;MACjB,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,E
AAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;M
ACrB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF
,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MA
CxB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iB
AAF,IAAuB,e;MACvB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB
,c;MACtB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAA
E,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;kGA2BX,
0E;MAEiC,oB;QAAA,OAAgB,E;MAAI,2B;QAAA,cAAwB,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,S
AAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACtM,QAA
Q,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,aAAF,IAAmB,W;MACnB,EAAE,MAAF,IAAY,I;MACZ,EAA
E,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;
MAChB,OAAO,C;K;wGAmDX,4S;MAEoC,mB;QAAA,MAAe,E;MAAI,oB;QAAA,OAAgB,E;MAAI,wB;QAAA
,WAAiB,C;MAAG,sB;QAAA,SAAmB,K;MAAO,2B;QAAA,cAAwB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,w
B;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K
;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,g
BAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,
8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;
MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjtB,QAAQ,E;M
ACR,EAAE,KAAF,IAAW,G;MACX,EAAE,MAAF,IAAY,I;MACZ,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QA
AF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAC
hB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAA
F,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;
MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EA
AE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IA
Ac,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OA
AO,C;K;8GAuBX,6D;MAEuC,oB;QAAA,OAAgB,E;MAAI,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;M
AAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC7K,QAAQ,E;MAC
R,EAAE,MAAF,IAAY,I;MACZ,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,
O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;wECnbX,4B;MAEyE,iB
AAY,KAAZ,C;K;wEAEzE,2B;MAEgG,iBAAY,IAAZ,C;K;wEAEwBhG,oC;MAE+F,UAAY,KAAZ,IAAqB,M;K;w
EAmFpH,2B;MAEqE,iBAAY,IAAZ,C;K;wEAEErE,kC;MAE2E,UAAY,IAAZ,IAAoB,K;K;wEAEssC/F,4B;MAEyE,
iBAAY,KAAZ,C;K;wEA0BzE,4B;MAEyE,iBAAY,KAAZ,C;K;wEAEsBzE,4B;MAEuE,iBAAY,KAAZ,C;K;wEAy
BvE,4B;MAE6E,iBAAY,KAAZ,C;K;2FA4C7E,gD;MAEiC,qB;QAAA,QAAiD,I;MAAM,uB;QAAA,UAAoB,K;M
AAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAClK,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MAC
b,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;uE

A+UX,4B;MAEuE,iBAAY,KAAZ,C;K;wEAEvE,2B;MAE6F,iBAAY,IAAZ,C;K;wEAqN7F,4B;MAEyE,iBAAY,
KAAZ,C;K;wEAEzE,oC;MAE2F,UAAY,KAAZ,IAAqB,M;K;+FAuehH,wD;MAEmC,6B;QAAA,gBAA8B,I;MA
AM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjJ,QAAQ,E;MACR,
EAAE,eAAF,IAAqB,a;MACrB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAA
gB,Q;MAChB,OAAO,C;K;uGAuIX,mB;MAEuC,uB;QAAA,UAAoB,K;MACvD,QAAQ,E;MACR,EAAE,SAAF,I
AAe,O;MACf,OAAO,C;K;+HAyCX,iB;MAEmD,qB;QAAA,QAAkB,I;MACjE,QAAQ,E;MACR,EAAE,OAAF,IA
Aa,K;MACb,OAAO,C;K;+FA0MX,sE;MAEmC,oB;QAAA,OAAgB,I;MAAM,wB;QAAA,WA0+G4B,S;;MA1+G
wB,kB;QAAA,KAAc,E;MAAI,wB;QAAA,WAAoB,I;MAAM,sB;QAAA,SAAkB,S;MAAW,uB;QAAA,UAAoB,I;
MAAM,qB;QAAA,QAAiB,I;MAAM,oB;QAAA,OAAgB,I;MACnP,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MAC
Z,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,IAAF,IAAU,E;MACV,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,
IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,OAAF,IAAa,K;MACb,EAAE,MAAF,IAAY,I;MACZ,OAAO,
C;K;qIAgDX,iB;MAEsD,qB;QAAA,QAAkB,I;MACpE,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,OAAO,C;
K;+GAkBX,qB;MAE2C,yB;QAAA,YAAmB,S;MAC1D,QAAQ,E;MACR,EAAE,SAAF,IAAe,S;MACf,OAAO,C;
K;wEAkCX,4B;MAEqF,iBAAY,KAAZ,C;K;yFAgCrF,4V;MAEgC,4B;QAAA,eAA8B,I;MAAM,uB;QAAA,UAA
gB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,sB;QAA
A,SAAiB,C;MAAG,uB;QAAA,UAAkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAAA,SAAkB,I;MAAM,uB
;QAAA,UAAoB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;M
AAO,gC;QAAA,mBAA6B,K;MAAO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iB
AA2B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6
B;QAAA,gBAA0B,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I
;MAAM,sB;QAAA,SAAe,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WA
AqB,K;MAC9yB,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,I
AAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,S
AAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,
EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,kBAAF,IAA
wB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,gBAAF,IAAsB,c;M
ACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE
,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,MAAF,IAA
Y,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,U
AAF,IAAgB,Q;MAChB,OAAO,C;K;wEAwEX,2B;MAE+D,iBAAY,IAAZ,C;K;iGA2D/D,gD;MAEoC,qB;QAAA,
QAAc,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAClI,QAA
Q,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,U
AAF,IAAgB,Q;MAChB,OAAO,C;K;qGA2BX,yD;MAEsC,sB;QAAA,SAAkB,E;MAAI,sB;QAAA,SAAkB,E;MA
AI,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC5J,QAAQ,E;MACR,
EAAE,QAAF,IAAc,M;MACd,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,
U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6GAuBX,oD;MAE0C,yB;QAAA,YAAsB,K;MAAO,uB;
QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjJ,QAAQ,E;MACR,EAAE,
WAAF,IAAiB,S;MACjB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;
MAChB,OAAO,C;K;2FAoFX,kF;MAEiC,uB;QAAA,UAAmB,E;MAAI,wB;QAAA,WAAoB,E;MAAI,sB;QAAA,
SAAe,C;MAAG,qB;QAAA,QAAc,C;MAAG,qB;QAAA,QAAc,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAA
A,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjN,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,UAA
F,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,
EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;iHAy
BX,0D;MAEqE,sB;QAAA,SAAe,S;MAAW,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QA
AA,WAAqB,K;MACzK,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,OA
AF,IAAa,K;MACb,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;iHAyBX,0D;MA
EkE,sB;QAAA,SAAe,S;MAAW,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqb
,K;MACtK,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;
MACb,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;wEAmXX,4B;MAE
kE,iBAAY,KAAZ,C;K;wEAElE,2B;MAEoE,iBAAY,IAAZ,C;K;wEAUpE,4B;MAEsE,iBAAY,KAAZ,C;K;wEAE
tE,2B;MAEwE,iBAAY,IAAZ,C;K;wEAaxE,4B;MAE+D,iBAAY,KAAZ,C;K;wEAE/D,2B;MAEiE,iBAAY,IAAZ,

C;K;mGA0CjE,8G;MAEqC,gC;QAAA,mBAooF8C,M;;MApoFe,gC;QAAA,mBAmpFT,S;;MAnpFyE,oC;QAAA,
uBA8pFjE,S;;MA9pF6I,2B;QAAA,cAAoB,S;MAAW,4B;QAAA,eAAqB,S;MAAW,6B;QAAA,gBAyqFlO,K;;MA
xqFvE,QAAQ,E;MACR,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,sBAAF,I
AA4B,oB;MAC5B,EAAE,aAAF,IAAmB,W;MACnB,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,eAAF,IAAqB,a;MA
CrB,OAAO,C;K;+FAwCX,mF;MAEmC,oB;QAAA,OAAa,I;MAAM,sB;QAAA,SAAkB,E;MAAI,2B;QAAA,cAA
uB,E;MAAI,sB;QAAA,SAAyC,I;MAAM,qB;QAAA,QAA6B,E;MAAW,uB;QAAA,UAAoB,K;MAAO,0B;QAAA
,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACxQ,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF
,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,E
AAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6FA4
BX,2B;MAEkC,+B;QAAA,kBAA4B,K;MAC1D,QAAQ,E;MACR,EAAE,iBAAF,IAAuB,e;MACvB,OAAO,C;K;2
FA2DX,iE;MAEiC,wB;QAAA,WAAqB,K;MAAO,oB;QAAA,OAAe,C;MAAG,sB;QAAA,SAAkB,E;MAAI,uB;Q
AAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/K,QAAQ,E;MACR,EAAE,U
AAF,IAAgB,Q;MAChB,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MAC
f,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;yFA8FX,6B;MAEgC,oB;QAAA,
OA+7E6C,S;;MA/7EL,2B;QAAA,cCl2He,M;;MDm2HnF,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,
aAAF,IAAmB,W;MACnB,OAAO,C;K;wEAoDX,0B;MAE+D,iBAAY,GAAZ,C;K;wEAE/D,iC;MAEqE,UAAY,G
AAZ,IAAmB,K;K;+FAoDxF,oF;MAEmC,mB;QAAA,MAAe,I;MAAM,wB;QAAA,WAAoB,I;MAAM,wB;QAAA
,WAAoB,I;MAAM,mB;QAAA,MAAe,E;MAAI,2B;QAAA,cAAwB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;Q
AAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACvO,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,
UAAF,IAAgB,Q;MAChB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,KAAF,IAAW,G;MACX,EAAE,aAAF,IAAmB
,W;MACnB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAA
O,C;K;iFAwNX,yC;MAE4B,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;
MACtG,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;
MAChB,OAAO,C;K;6FAwBX,iD;MAEkC,sB;QAAA,SAAe,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,a
AAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjI,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IA
Ae,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;uGASX,mB;MAEuC,
uB;QAAA,UAAoB,K;MACvD,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;6GAYX,kC;MAE0C,u
B;QAAA,UAAoB,K;MAAO,oB;QAAA,OAAiB,K;MAAO,uB;QAAA,UAAoB,K;MAC7G,QAAQ,E;MACR,EAA
E,SAAF,IAAe,O;MACf,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;wEAkEX,4B;M
AE6D,iBAAY,KAAZ,C;K;wEAU7D,4B;MAEsE,iBAAY,KAAZ,C;K;wEAEtE,2B;MAEwE,iBAAY,IAAZ,C;K;u
GAsCxE,oH;MAEuC,yB;QAAA,YAAsB,K;MAAO,0B;QAAA,aAAuB,S;MAAW,6B;QAAA,gBAA0B,S;MAAW,
uB;QAAA,UAAoB,K;MAAO,iC;QAAA,oBAA8B,S;MAAW,qC;QAAA,wBAAkC,S;MAAW,+B;QAAA,kBAAk
C,S;MAC1R,QAAQ,E;MACR,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,eAAF,IA
AqB,a;MACrB,EAAE,SAAF,IAAe,O;MACf,EAAE,mBAAF,IAAyB,iB;MACzB,EAAE,uBAAF,IAA6B,qB;MAC
7B,EAAE,iBAAF,IAAuB,e;MACvB,OAAO,C;K;mGAgFX,oB;MAEqC,wB;QAAA,WAAqB,K;MACtD,QAAQ,E;
MACR,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;wEA+MX,2B;MAEiE,iBAAY,IAAZ,C;K;2GAkCjE,c;MAE
yC,kB;QAAA,KAAAgB,S;MACrD,QAAQ,E;MACR,EAAE,IAAF,IAAU,E;MACV,OAAO,C;K;2FAuMX,gB;MAG
I,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;wEAgBX,4B;MAEiE,oC;MAE4E,uAAuT5E,4B;M
AEmE,iBAAY,KAAZ,C;K;uFA2CnE,sB;MAE+B,iB;QAAA,IAAa,IAAa,G;MAAAK,iB;QAAA,IAAAa,G;MAAA
K,iB;QAAA,IAAAa,G;MAAAK,iB;QAAA,IAAAa,G;MAC9F,QAAQ,E;MACR,E
AAE,GAAF,IAAAS,C;MACT,EAAE,GAAF,IAAAS,C;MACT,EAAE,GAAF,IAAAS,C;MACT,EAAE,GAAF,IAAA
S,C;MACT,OAAO,C;K;qFA0CX,+B;MAE8B,iB;QAAA,IAAa,IAAAa,G;MAAAK,iB;QAAA,IAAAa,G;MAAAK,q
B;QAAA,QAAiB,G;MAAAK,sB;QAAA,SAAAkB,G;MACtG,QAAQ,E;MACR,EAAE,GAAF,IAAAS,C;MACT,E
AAE,GAAF,IAAAS,C;MACT,EAAE,OAAF,IAAAa,K;MACb,EAAE,QAAF,IAAAc,M;MACd,OAAO,C;K;wEAE
OX,4B;MAEmE,iBAAY,KAAZ,C;K;yFAiHnE,oB;MAEgC,wB;QAAA,WAAy2B+C,M;;MAx2B3E,QAAQ,E;M
ACR,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6FAeX,+B;MAEkC,oB;QAAA,OAAgB,S;MAAW,mB;QAAA,
MAAe,S;MAAW,wB;QAAA,WAAq1BR,M;;MAp1B3E,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,
KAAF,IAAW,G;MACX,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6GAwCX,yD;MAE0C,qB;QAAA,QAAiB,E;
MAAI,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;

MAAO,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACpK,QAAQ,E;M
ACR,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAA
kB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;yGAiCX,mC;MAEwC,qB;QAAA,QA2wByD,Q;;MA
3wBK,sB;QAAA,SA2wBL,Q;;MA3wBoE,wB;QAAA,WA4vBtF,M;;MA3vB3E,QAAQ,E;MACR,EAAE,OAAF,I
AAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;2FAYX,2B;MAEiC,m
B;QAAA,MAuwB0C,Q;;MAvwBJ,0B;QAAA,aAAsB,S;MACzF,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX
,EAAE,YAAF,IAAkB,U;MAClB,OAAO,C;K;+GAYX,0B;MAE2C,uB;QAAA,UAqvBgC,Q;;MArvBU,qB;QAAA,
QAqvBV,Q;;MApvBvE,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,OAAF,IAAa,K;MACb,OAAO,C;K;
wEAgCX,4B;MAE+D,iBAAY,KAAZ,C;K;qFAyaY,qB;MAAQ,OAAU,S;K;6FAEd,qB;MAAQ,OAAc,a;K;uFAEz
B,qB;MAAQ,OAAW,U;K;iFASxB,qB;MAAQ,OAAG,E;K;iFAEX,qB;MAAQ,OAAQ,O;K;uFAEb,qB;MAAQ,OA
AW,U;K;uFAS3B,qB;MAAQ,OAAW,U;K;mFAErB,qB;MAAQ,OAAS,Q;K;qFAEhB,qB;MAAQ,OAAU,S;K;yFA
ShB,qB;MAAQ,OAAY,W;K;uFAErB,qB;MAAQ,OAAW,U;K;+FAEf,qB;MAAQ,OAAe,c;K;uFAE3B,qB;MAAQ,
OAAW,U;K;uFAEnB,qB;MAAQ,OAAW,U;K;mFASrB,qB;MAAQ,OAAS,Q;K;iFAElB,qB;MAAQ,OAAQ,O;K;6
EAElB,qB;MAAQ,OAAM,K;K;uFAET,qB;MAAQ,OAAW,U;K;qFASlB,qB;MAAQ,OAAU,S;K;qFAElB,qB;MA
AQ,OAAU,S;K;6EASR,qB;MAAQ,OAAM,K;K;mFAEX,qB;MAAQ,OAAS,Q;K;+EAEnB,qB;MAAQ,OAAO,M;
K;+EAS/B,qB;MAAQ,OAAO,M;K;iFAEd,qB;MAAQ,OAAQ,O;K;mFAEf,qB;MAAQ,OAAS,Q;K;mFAShB,qB;
MAAQ,OAAQ,O;K;iFAEhB,qB;MAAQ,OAAQ,O;K;iFAEhB,qB;MAAQ,OAAQ,O;K;mFASd,qB;MAAQ,OAAQ,
O;K;+EAElB,qB;MAAQ,OAAM,K;K;+EAEb,qB;MAAQ,OAAO,M;K;iFAEd,qB;MAAQ,OAAQ,O;K;mFAEf,qB;
MAAQ,OAAS,Q;K;6EASd,qB;MAAQ,OAAM,K;K;qFAEV,qB;MAAQ,OAAU,S;K;mFAEnB,qB;MAAQ,OAAS,
Q;K;2FAEb,qB;MAAQ,OAAa,Y;K;6FAEpB,qB;MAAQ,OAAc,a;K;mFAE3B,qB;MAAQ,OAAS,Q;K;6EAS1B,qB
;MAAQ,OAAM,K;K;6EAEd,qB;MAAQ,OAAM,K;K;qFAEV,qB;MAAQ,OAAU,S;K;+EASjB,qB;MAAQ,OAAO,
M;K;mFAEb,qB;MAAQ,OAAS,Q;K;+EASrB,qB;MAAQ,OAAO,M;K;iFAEd,qB;MAAQ,OAAQ,O;K;iFASjB,qB;
MAAQ,OAAO,M;K;6FAER,qB;MAAQ,OAAc,a;K;qFAE1B,qB;MAAQ,OAAU,S;K;iFASb,qB;MAAQ,OAAO,M;
K;uFAEZ,qB;MAAQ,OAAU,S;K;yFAS9B,qB;MAAQ,OAAY,W;K;+EAE1B,qB;MAAQ,OAAM,K;K;qFAEX,qB;
MAAQ,OAAS,Q;K;iFAEnB,qB;MAAQ,OAAO,M;K;+EASrB,qB;MAAQ,OAAO,M;K;6FAER,qB;MAAQ,OAAc,
a;K;qFAS1B,qB;MAAQ,OAAU,S;K;mFAEnB,qB;MAAQ,OAAS,Q;K;+EASX,qB;MAAQ,OAAO,M;K;mFAEb,q
B;MAAQ,OAAS,Q;K;iFASnB,qB;MAAQ,OAAO,M;K;qFAEZ,qB;MAAQ,OAAU,S;K;mFAEnB,qB;MAAQ,OAA
S,Q;K;kFASJ,qB;MAAQ,OAAQ,O;K;oFAEf,qB;MAAQ,OAAS,Q;K;8EAEpB,qB;MAAQ,OAAM,K;K;oFAEV,q
B;MAAQ,OAAU,S;K;mFASzC,qB;MAAQ,OAAS,Q;K;mFAEjB,qB;MAAQ,OAAS,Q;K;qFAEhB,qB;MAAQ,OA
AU,S;K;qFAElB,qB;MAAQ,OAAU,S;K;wIEx+M7E,wM;MAEiD,qB;QAAA,QAAkB,I;MAAM,sB;QAAA,SAAm
B,I;MAAM,2B;QAAA,cAAwB,I;MAAM,yB;QAAA,YAAsB,I;MAAM,0B;QAAA,aAAuB,I;MAAM,0B;QAAA,a
AAuB,I;MAAM,sB;QAAA,SAAmB,I;MAAM,0B;QAAA,aAAuB,I;MAAM,0B;QAAA,aAAuB,I;MAAM,gC;QAA
A,mBAA6B,I;MAAM,+B;QAAA,kBAAwB,I;MAAM,gC;QAAA,mBAA6B,I;MAAM,uB;QAAA,UAAoB,I;MAA
M,4B;QAAA,eAAyB,I;MAAM,wB;QAAA,WAAqB,I;MAAM,uB;QAAA,UAAoB,I;MACrf,QAAQ,E;MACR,EA
AE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,
S;MACjB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,QAAF,IAAc,M;MACd,EAAE
,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,iBAAF,IA
AuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,SAAF,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;MACpB
,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;wHAsDX,wM;MAEyC,qB;QAAA,Q
AAqB,S;MAAW,sB;QAAA,SAAsB,S;MAAW,2B;QAAA,cAA4B,S;MAAW,yB;QAAA,YAA0B,S;MAAW,0B;Q
AAA,aAA6B,S;MAAW,0B;QAAA,aAA6B,S;MAAW,sB;QAAA,SAAuB,S;MAAW,0B;QAAA,aAA0B,S;MAAW
,0B;QAAA,aAA0B,S;MAAW,gC;QAAA,mBAAoC,S;MAAW,+B;QAAA,kBAAmC,S;MAAW,gC;QAAA,mBAA
oC,S;MAAW,uB;QAAA,UAAwB,S;MAAW,4B;QAAA,eAA4B,S;MAAW,wB;QAAA,WAAoB,S;MAAW,uB;Q
AAA,UAAmB,S;MACtnB,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,a
AAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB
,U;MAClB,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAA
E,kBAAF,IAAwB,gB;MACxB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,SAA
F,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MAC
f,OA

AO,C;K;sHAYX,kN;MAEwC,wB;QAAA,WAA4C,S;MAAW,qB;QAAA,QAAiB,S;MAAW,sB;QAAA,SAAkB,S;
MAAW,2B;QAAA,cAAuB,S;MAAW,yB;QAAA,YAAqB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;QAAA,aA
AsB,S;MAAW,sB;QAAA,SAAkB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,gC;QAA
A,mBAA4B,S;MAAW,+B;QAAA,kBAA2B,S;MAAW,gC;QAAA,mBAA4B,S;MAAW,uB;QAAA,UAAmB,S;M
AAW,4B;QAAA,eAAwB,S;MAAW,wB;QAAA,WAAoB,S;MAAW,uB;QAAA,UAAmB,S;MAC9lB,QAAQ,E;M
ACR,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,
IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;M
AClB,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,kB
AAF,IAAwB,gB;MACxB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,SAAF,IA
Ae,O;MACf,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,OAA
O,C;K;0HAsDX,wM;MAE0C,qB;QAAA,QAAiB,S;MAAW,sB;QAAA,SAAkB,S;MAAW,2B;QAAA,cAAuB,S;M
AAW,yB;QAAA,YAAqB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,sB;QAAA,SAAk
B,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,gC;QAAA,mBAA4B,S;MAAW,+B;QAA
A,kBAA2B,S;MAAW,gC;QAAA,mBAA4B,S;MAAW,uB;QAAA,UAAmB,S;MAAW,4B;QAAA,eAAwB,S;MAA
W,wB;QAAA,WAAoB,S;MAAW,uB;QAAA,UAAmB,S;MACziB,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb
,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,I
AAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MAClB
,EAAE,YAAF,IAAkB,U;MAClB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,kB
AAF,IAAwB,gB;MACxB,EAAE,SAAF,IAAe,O;MACf,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;
MChB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;gHAyDX,wM;MAEqC,qB;QAAA,QAAc,S;MAAW,sB;QAAA,
SAAe,S;MAAW,2B;QAAA,cAAuB,S;MAAW,yB;QAAA,YAAqB,S;MAAW,0B;QAAA,aAAsB,S;MAAW,0B;Q
AAA,aAAsB,S;MAAW,sB;QAAA,SAAkB,S;MAAW,0B;QAAA,aAAmB,S;MAAW,0B;QAAA,aAAmB,S;MAA
W,gC;QAAA,mBAA6B,S;MAAW,+B;QAAA,kBAA4B,S;MAAW,gC;QAAA,mBAA6B,S;MAAW,uB;QAAA,UA
AmB,S;MAAW,4B;QAAA,eAAqB,S;MAAW,wB;QAAA,WAAoB,S;MAAW,uB;QAAA,UAAmB,S;MACxhB,Q
AAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EA
AE,WAAF,IAAiB,S;MACjB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,QAAF,IA
Ac,M;MACd,EAAE,YAAF,IAAkB,U;MAClB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,kBAAF,IAAwB,gB;MACx
B,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,SAAF,IAAe,O;MACf,EAAE,cAA
F,IAAoB,Y;MACpB,EAAE,UAAF,IAAgB,Q;MChB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;8HAqBX,gD;M
AEsE,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAChJ,QAAQ,E;MAC
R,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAA
gB,Q;MAChB,OAAO,C;K;sIAoBX,gD;MAEgD,qB;QAAA,QAAiB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,0B;Q
AAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACjJ,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,SA
AF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MChB,OAAO,C;K;wHAwCX,wB;
MAEyC,qB;QAAA,QAAiB,K;MAAO,qB;QAAA,QAAiB,K;MAC9E,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MA
Cb,EAAE,OAAF,IAAa,K;MACb,OAAO,C;K;kGAyBX,oB;MAE8B,mB;QAAA,MAAe,S;MAAW,mB;QAAA,MA
Ae,S;MACnE,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MACX,OAAO,C;K;oHA
YX,kC;MAEuC,qB;QAAA,QAAiB,S;MAAW,qB;QAAA,QAAiB,S;MAAW,mB;QAAA,MAAe,S;MAAW,mB;Q
AAA,MAAe,S;MACpI,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,EAAE,KAA
F,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MACX,OAAO,C;K;gGAYX,oB;MAE6B,mB;QAAA,MAAY,S;MAA
W,mB;QAAA,MAAY,S;MAC5D,QAAQ,E;MACR,EAAE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MAC
X,OAAO,C;K;kHAYX,kC;MAEsC,qB;QAAA,QAAc,S;MAAW,qB;QAAA,QAAc,S;MAAW,mB;QAAA,MAAY,
S;MAAW,mB;QAAA,MAAY,S;MACvH,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;
MACb,EAAE,KAAF,IAAW,G;MACX,EAAE,KAAF,IAAW,G;MACX,OAAO,C;K;gIAeX,wB;MAE6C,qB;QAA
A,QAAkB,S;MAAW,qB;QAAA,QAAkB,S;MACxF,QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OA
AF,IAAa,K;MACb,OAAO,C;K;oIAeX,wB;MAEiB,qB;QAAA,QAAiB,S;MAAW,qB;QAAA,QAAiB,S;MACxF,
QAAQ,E;MACR,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,OAAO,C;K;4FAKX,Y;MAGI,QA
AQ,E;MACR,OAAO,C;K;oFAKX,Y;MAGI,QAAQ,E;MACR,OAAO,C;K;8FAKX,Y;MAGI,QAAQ,E;MACR,O
AAO,C

;K;kGASX,oB;MAE8B,wB;QAAA,WAAkC,S;MAC5D,QAAQ,E;MACR,EAAE,UAAF,IAAgB,Q;MAChB,OAA
O,C;K;4FAUmE,qB;MAAQ,OAAO,M;K;8FAEd,qB;MAAQ,OAAQ,O;K;4FASrB,qB;MAAQ,OAAO,M;K;0GAE
R,qB;MAAQ,OAAc,a;K;8FAE7B,qB;MAAQ,OAAO,M;K;gGAEd,qB;MAAQ,OAAQ,O;K;8FASjB,qB;MAAQ,O
AAO,M;K;gHAEL,qB;MAAQ,OAAiB,gB;K;wGASrC,qB;MAAQ,OAAa,Y;K;0GAEpB,qB;MAAQ,OAAc,a;K;w
GAEvB,qB;MAAQ,OAAa,Y;K;oFCroB7F,4B;MAE6E,iBAAY,KAAZ,C;K;iGASnB,qB;MAAQ,OAAS,Q;K;6FAE
nB,qB;MAAQ,OAAO,M;K;+FAEd,qB;MAAQ,OAAQ,O;K;iGASF,qB;MAAQ,OAAU,S;K;+FAEnB,qB;MAAQ,O
AAS,Q;K;mGAS3B,qB;MAAQ,OAAW,U;K;mGAEnB,qB;MAAQ,OAAW,U;K;6GC1D/E,mb;MAEmC,yB;QAA
A,YAAkB,C;MAAG,qB;QAAA,QAAiB,G;MAAK,sB;QAAA,SAAkB,G;MAAK,wB;QAAA,WAAmB,G;MAAI,k
C;QAAA,qBAA6B,G;MAAI,qB;QAAA,QAAc,C;MAAG,qB;QAAA,QAAc,C;MAAG,qB;QAAA,QAAc,C;MAA
G,2B;QAAA,cAAuB,E;MAAI,yB;QAAA,YAAsB,K;MAAO,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;
MAAG,uB;QAAA,UAAgB,C;MAAG,uB;QAAA,UAAgB,C;MAAG,sB;QAAA,SAAiB,C;MAAG,uB;QAAA,UA
AkB,C;MAAG,6B;QAAA,gBAA8B,I;MAAM,sB;QAAA,SAAkB,I;MAAM,uB;QAAA,UAAoB,K;MAAO,wB;QA
AA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,gC;QAAA,mBAA6B,K;MA
AO,gC;QAAA,mBAA6B,K;MAAO,0B;QAAA,aAAuB,K;MAAO,8B;QAAA,iBAA2B,K;MAAO,6B;QAAA,gBA
A0B,K;MAAO,+B;QAAA,kBAA4B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,6B;QAAA,gBAA0B,K;MAAO,8B;
QAAA,iBAA2B,K;MAAO,kC;QAAA,qBAA+B,K;MAAO,oB;QAAA,OAAgB,I;MAAM,sB;QAAA,SAAe,C;MA
AG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACl/B,QAAQ,E;MACR
,EAAE,WAAF,IAAiB,S;MACjB,EAAE,OAAF,IAAa,K;MACb,EAAE,QAAF,IAAc,M;MACd,EAAE,UAAF,IAAg
B,Q;MAChB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,OAAF,IAAa,K;MACb,EAAE,OAAF,IAAa,K;MACb,EA
AE,OAAF,IAAa,K;MACb,EAAE,aAAF,IAAmB,W;MACnB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,SAAF,IAAe,
O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,EAAE,QAAF,I
AAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,eAAF,IAAqB,a;MACrB,EAAE,QAAF,IAAc,M;MACd,EAAE
,SAAF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MA
Cf,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,YAAF,IAAkB,U;MAClB,EAA
E,gBAAF,IAAsB,c;MACtB,EAAE,eAAF,IAAqB,a;MACrB,EAAE,iBAAF,IAAuB,e;MACvB,EAAE,oBAAF,IAA
0B,kB;MAC1B,EAAE,eAAF,IAAqB,a;MACrB,EAAE,gBAAF,IAAsB,c;MACtB,EAAE,oBAAF,IAA0B,kB;MAC
1B,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAk
B,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6GC1BX,0C;MAEwC,oB;QAAA,OAAiB,I;MAAM,sB
;QAAA,SAAmB,K;MAAO,uB;QAAA,UAAoB,K;MAAO,uB;QAAA,UAAoB,K;MACpI,QAAQ,E;MACR,EAAE,
MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,SAAF,IAAe,O;MACf,
OAAO,C;K;4EAmIX,4B;MAEkE,iBAAY,KAAZ,C;K;4EAElE,qC;MAE2E,UAAY,KAAZ,IAAqB,O;K;4EAiBhG,
4B;MAEuE,iBAAY,KAAZ,C;K;4EAEvE,qC;MAE+E,UAAY,KAAZ,IAAqB,O;K;4EAiBpG,4B;MAEuE,iBAAY,
KAAZ,C;K;4EAEvE,qC;MAE+E,UAAY,KAAZ,IAAqB,O;K;4EAiGpG,4B;MAEoE,iBAAY,KAAZ,C;K;2EAEpE,
qC;MAE4E,UAAY,KAAZ,IAAqB,O;K;4EAkcjG,4B;MAE6E,iBAAY,KAAZ,C;K;4EAE7E,qC;MAEqF,UAAY,K
AAZ,IAAqB,O;K;4EAgP1G,4B;MAEqE,iBAAY,KAAZ,C;K;4EAErE,qC;MAE6E,UAAY,KAAZ,IAAqB,O;K;uFJ
57BlG,+H;MAE8B,sB;QAAA,SAAkB,S;MAAW,uB;QAAA,UAAmB,S;MAAW,oB;QAAA,OAAgB,S;MAAW,w
B;QAAA,WAAoB,S;MAAW,8B;QAAA,iBAA0B,S;MAAW,oB;QAAA,OAAqB,S;MAAW,2B;QAAA,cAAmC,S;
MAAW,qB;QAAA,QAAuB,S;MAAW,wB;QAAA,WAA6B,S;MAAW,yB;QAAA,YAAqB,S;MAAW,yB;QAAA,
YAAsB,S;MAAW,wB;QAAA,WAAe,S;MAC5Z,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IA
Ae,O;MACf,EAAE,MAAF,IAAY,I;MACZ,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,gBAAF,IAAsB,c;MACtB,EA
AE,MAAF,IAAY,I;MACZ,EAAE,aAAF,IAAmB,W;MACnB,EAAE,OAAF,IAAa,K;MACb,EAAE,UAAF,IAAgB,
Q;MAChB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,WAAF,IAAiB,S;MACjB,EAAE,QAAF,IAAc,Q;MACd,OAAO
,C;K;yFA0CX,uC;MAE+B,sB;QAAA,SAAiB,G;MAAK,0B;QAAA,aAAsB,I;MAAM,uB;QAAA,UAAmB,S;MAC
hG,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,YAAF,IAAkB,U;MAClB,EAAE,SAAF,IAAe,O;MACf
,OAAO,C;K;qFAUgD,qB;MAAQ,OAAG,E;K;mFAEX,qB;MAAQ,OAAQ,O;K;iFAEjB,qB;MAAQ,OAAO,M;K;
mFAEd,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;mFAElB,qB;MAAQ,OAAQ,O;K;mFAEhB,qB;M
AAQ,OAAQ,O;K;mFAEhB,qB;MAAQ,OAAQ,O;K;qFASF,qB;MAAQ,OAAG,E;K;yFAER,qB;MAAQ,OAAW,U
;K;mFAEtB,qB;MAAQ,OAAQ,O;K;mFAEjB,qB;MAAQ,OAAO,M;K;qFAEd,qB;MAAQ,OAAQ,O;K;yFAEb,qB;

MAAQ,OAAW,U;K;mFAEtB,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;qFAEjB,qB;MAAQ,OAAS,
Q;K;uFAEjB,qB;MAAQ,OAAS,Q;K;mGAEV,qB;MAAQ,OAAgB,e;K;iGAEzB,qB;MAAQ,OAAe,c;K;qFAE9B,q
B;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;iFAEnB,qB;MAAQ,OAAO,M;K;yFASzB,qB;MAAQ,OAA
W,U;K;+FAEhB,qB;MAAQ,OAAc,a;K;uFAE1B,qB;MAAQ,OAAU,S;K;iFAErB,qB;MAAQ,OAAO,M;K;iFASD,
qB;MAAQ,OAAO,M;K;iGAER,qB;MAAQ,OAAc,a;K;uFAE1B,qB;MAAQ,OAAU,S;K;yFAS9B,qB;MAAQ,OA
AU,S;K;yFAEjB,qB;MAAQ,OAAW,U;K;qFAErB,qB;MAAQ,OAAS,Q;K;yFAEf,qB;MAAQ,OAAW,U;K;+FAEh
B,qB;MAAQ,OAAc,a;K;qGAEnB,qB;MAAQ,OAAiB,gB;K;qFAS3B,qB;MAAQ,OAAS,Q;K;mFAElB,qB;MAAQ
,OAAQ,O;K;uFAEf,qB;MAAQ,OAAS,Q;K;mFASxB,qB;MAAQ,OAAQ,O;K;mFAEjB,qB;MAAQ,OAAO,M;K;y
FAEZ,qB;MAAQ,OAAU,S;K;qFAEpB,qB;MAAQ,OAAQ,O;K;qFAEf,qB;MAAQ,OAAS,Q;K;qGAET,qB;MAAQ
,OAAiB,gB;K;+FKnR/F,gB;MAEkC,oB;QAAA,OAAgB,E;MAC9C,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MA
CZ,OAAO,C;K;+FAiBX,8B;MAEkC,4B;QAAA,eAAqB,S;MAAW,oB;QAAA,OAAgB,E;MAC9E,QAAQ,E;MAC
R,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;0EAUX,4B;MAE6D,iBAAY,KAA
Z,C;K;+GC6B7D,sJ;MAEsC,mB;QAAA,MA4GuD,M;;MA5GG,oB;QAAA,OAAgB,E;MAAI,oB;QAAA,OAAgB,
E;MAAI,mB;QAAA,MAAe,E;MAAI,qB;QAAA,QAAiB,S;MAAW,oB;QAAA,OAAgB,S;MAAW,qB;QAAA,QA
AiB,S;MAAW,qB;QAAA,QAAiB,S;MAAW,uB;QAAA,UAAmB,S;MAAW,yB;QAAA,YAAqB,S;MAAW,wB;Q
AAA,WAAqB,K;MAAO,sB;QAAA,SAAmB,K;MAAO,wB;QAAA,WAAqB,K;MAAO,kC;QAAA,qBAA+B,K;M
AAO,sB;QAAA,SAAmB,K;MAAO,oB;QAAA,OAAa,I;MAAM,uB;QAAA,UAAsC,E;MAC/gB,QAAQ,E;MACR,
EAAE,KAAF,IAAW,G;MACX,EAAE,MAAF,IAAY,I;MACZ,EAAE,MAAF,IAAY,I;MACZ,EAAE,KAAF,IAA
W,G;MACX,EAAE,OAAF,IAAa,K;MACb,EAAE,MAAF,IAAY,I;MACZ,EAAE,OAAF,IAAa,K;MACb,EAAE,O
AAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,WAAF,IAAiB,S;MACjB,EAAE,UAAF,IAAgB,Q;MAC
hB,EAAE,QAAF,IAAc,M;MACd,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,QA
AF,IAAc,M;MACd,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;6GAWX,+B;MAEsE,
oB;QAAA,OAAgB,S;MAClF,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAA
E,MAAF,IAAY,I;MACZ,OAAO,C;K;qHASX,e;MAEyC,mB;QAAA,MAAe,E;MACpD,QAAQ,E;MACR,EAAE,
KAAF,IAAW,G;MACX,OAAO,C;K;mHAyBX,+D;MAEqE,sB;QAAA,SAAkB,E;MAAI,uB;QAAA,UAAoB,K;M
AAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACrK,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MA
CpB,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,I
AAgB,Q;MAChB,OAAO,C;K;iGAUwE,qB;MAAQ,OAAU,S;K;6FAEnB,qB;MAAQ,OAAS,Q;K;+FAEhB,qB;M
AAQ,OAAU,S;K;2FASvB,qB;MAAQ,OAAO,M;K;yFAEhB,qB;MAAQ,OAAM,K;K;yFAEd,qB;MAAQ,OAAM,
K;K;yGCrJ3F,uB;MAEsC,qB;QAAA,QAAiB,S;MAAW,oB;QAAA,ORy9MW,S;;MQx9MzE,QAAQ,E;MACR,EA
AE,OAAF,IAAa,K;MACb,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;K;6HAuCX,mF;MAEgD,oB;QAAA,OAAa,S;
MAAW,sB;QAAA,SAAkB,S;MAAW,2B;QAAA,cAAuB,S;MAAW,sB;QAAA,SAA2C,S;MAAW,qB;QAAA,QA
A6B,S;MAAW,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/S,QAA
Q,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAA
E,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;M
AClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;uGA2DX,qC;MAEqC,sBAAgC,K;MAAO,oB;QAAA,OAA4
UD,Q;;MA3UvE,QAAQ,E;MACR,EAAE,qBAAF,IAA2B,mB;MAC3B,EAAE,MAAF,IAAY,I;MACZ,OAAO,C;
K;yGAmBX,yC;MAEsC,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MA
ChH,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;M
AChB,OAAO,C;K;yGAsBX,2B;MAGI,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;M
ACf,OAAO,C;K;+FA8BX,sE;MAEoD,wB;QAAA,WAAoB,I;MAAM,wB;QAAA,WAAqB,K;MAAO,uB;QAAA,
UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAChK,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAAE,UAA
F,IAAgB,Q;MAChB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;M
AClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6GAuBX,0D;MAE2D,sB;QAAA,SAAkB,M;MAAQ,uB;QAA
A,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MAC/I,QAAQ,E;MACR,EAAE,SAA
F,IAAe,O;MACf,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,
EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;2GAaX,qC;MAE4D,sB;QAAA,SAAkB,S;
MAAW,uB;QAAA,UAA0B,S;MAC/G,QAAQ,E;MACR,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,QAAF,IAAc,M;

MACd,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;uHAuCX,mF;MAE6C,oB;QAAA,OAAa,S;MAAW,sB;QAAA,S
AAkB,S;MAAW,2B;QAAA,cAAuB,S;MAAW,sB;QAAA,SAAmD,S;MAAW,qB;QAAA,QAA6B,S;MAAW,uB;Q
AAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA,WAAqB,K;MACpT,QAAQ,E;MACR,EAAE,M
AAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EAAE,QAAF,IAAc,M;MA
Cd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IA
AgB,Q;MAChB,OAAO,C;K;qGA+BX,6D;MAEoC,4B;QAAA,eAAyB,K;MAAO,4B;QAAA,eAAyB,K;MAAO,0B
;QAAA,aAAuB,K;MAAO,yB;QAAA,YAAqB,S;MACnJ,QAAQ,E;MACR,EAAE,cAAF,IAAoB,Y;MACpB,EAA
E,cAAF,IAAoB,Y;MACpB,EAAE,YAAF,IAAkB,U;MAClB,EAAE,WAAF,IAAiB,S;MACjB,OAAO,C;K;yGAkB
X,4C;MAEsC,oB;QAAA,OAAgB,S;MAAW,uB;QAAA,UAAoB,S;MAAW,wB;QAAA,WAAsB,S;MAAW,uB;QA
AA,UAA8B,S;MAC3J,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,EAAE,UAA
F,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;+FAkCmE,qB;MAAQ,OAAa,Y;K;6FAEtB,qB;MA
AQ,OAAY,W;K;+FAEnB,qB;MAAQ,OAAa,Y;K;6FAEtB,qB;MAAQ,OAAY,W;K;6FAEpB,qB;MAAQ,OAAY,
W;K;6FAStC,qB;MAAQ,OAAY,W;K;6FAEpB,qB;MAAQ,OAAY,W;K;uFAEvB,qB;MAAQ,OAAS,Q;K;qFAEn
B,qB;MAAQ,OAAO,M;K;uFASX,qB;MAAQ,OAAS,Q;K;yFAEjB,qB;MAAQ,OAAS,Q;K;qGAEX,qB;MAAQ,O
AAe,c;K;iFAEhC,qB;MAAQ,OAAM,K;K;iGCharE,0E;MAEoC,gC;QAAA,mBAA6B,K;MAAO,sB;QAAA,SAAk
B,C;MAAG,qB;QAAA,QAAiB,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA
,WAAqB,K;MAC3L,QAAQ,E;MACR,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,QAAF,IAAc,M;MACd,EAAE,
OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MA
ChB,OAAO,C;K;mFAU8E,qB;MAAQ,OAAG,E;K;+FAEL,qB;MAAQ,OAAc,a;K;iFAE7B,qB;MAAQ,OAAO,M;
K;yFAEX,qB;MAAQ,OAAW,U;K;+EAEvB,qB;MAAQ,OAAO,M;K;+EAEf,qB;MAAQ,OAAO,M;K;oEtIjIvG,yB
;MAAA,kF;MAAA,0B;MAAA,uB;QAaI,IAAI,OAAO,CAAP,IAA8B,OAAO,KAAzC,C;UACI,MAAM,8BAAyB,
wBAAqB,IAA9C,C;;QAEV,OAAAY,OAAAL,IAAAK,C;O;KAhBhB,C;0EAwCiC,yB;MAAA,kF;MAAA,0B
;MAAA,uB;QAaI,IAAI,OAAO,CAAP,IAA8B,OAAO,KAAzC,C;UACI,MAAM,8BAAyB,wBAAqB,IAA9C,C;
;QAEV,OAAAY,OAAAL,IAAAK,C;O;KAhBhB,C;0EA0CmC,yB;MAAA,kF;MAAA,0B;MAAA,uB;QAaI,IAAI
,OAAO,CAAP,IAA8B,OAAO,KAAzC,C;UACI,MAAM,8BAAyB,wBAAqB,IAA9C,C;;QAEV,OAAAY,OAAA
L,IAAAK,C;O;KAhBhB,C;IAyByByB,4B;MACzB,8B;K;IC/C4C,8B;K;kDAI5C,mB;MAA6D,c;;QrJ2rD7C,Q;
QADhB,IAAI,mCAAsB,cAA1B,C;UAAqC,aAAO,K;UAAP,e;;QACrB,sB;QAAhB,OAAgB,cAAhB,C;UAAgB,cAA
hB,C;UAAgB,2B;UAAM,IqJ3rD6C,OrJ2rD/B,SqJ3rD7C,CrJ2rD8B,UrJ2rD7C,C;YAAwB,aAAO,I;YAAP,e;;;QAC9C,a
AAO,K;;;MqJ5rD1B,OAAgB,OAAA,cqJ9rD6B,OrJ8rD/B,UrJ8rD7C,C;UAAwB,OAAO,I;;QqJ5rD1B,OAAgB,yB
;UAAM,IAAI,CqJJpqDH,iB;K;2CAEJ,Y;MAAkC,qBAAQ,C;K;IAEqB,q
E;MAAA,qB;QAC3D,OAAAI,OAAO,CqJAC3D,OAAI,OAAAuBAAX,GAAiB,mBAAjB,GAA6C,SAAH,EAAAG,C;O;K;4CAD
jD,Y;MAAkC,4BAAa,IAAhb,EAAAmB,GAAAnB,EAAAwB,GAAAxB,kBAAA6B,wCAAA7B,C;K;2CAIlC,Y
;MAI4C,uBAAAgB,IAAhb,C;K;mDAE5C,iB;MAIyD,yBAAAgB,IAAhb,EAAAsB,C;K;IC/BhE,8B;MAAA,e;MAAA
,iB;MAAA,uB;K;IAAA,4B;MAAA,+B;O;MAACI,4C;MACA,kD;MACA,0C;MAGA,8C;MAAA,wC;MACA,kD;K;;
IAAA,2C;MAAA,0B;QAAA,yBAAgB,IAAhB,C;;MAAA,mB;K;mDAE5C,iB;MAI4D,yBAAAgB,IAAhb,EAAA
sB,C;K;IC/BhE,8B;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,4B;MAAA,+B;O;MACI,4C;MACA,kD;O;K;4CADjD
,Y;MAAkC,4BAAa,IAAhb,EAAAmB,GAAAnB,kBAAAwB,wCAAAxB,C;K;IAAA,qB;QAAA,yBAAgB,IAAhb,C;;
MAAA,mB;K;QAC3D,OAAAI,OAAI,OAAAuBAAX,GAAiB,mBAAjB,GAA6C,SAAH,EAAAG,C;O;K;4CADjD,Y;MAAkC
,qBAAQ,C;K;IAEqB,2C;MAAA,e;MAAA,qB;QAAA,yBAAgB,IAAhb,EAAAmB,GAAAnB,kBAAAwB,wCAAAx
B,C;K;QvJkU3C,Q;QADb,YAAY,C;QACC,OAAACC3D,OAAb,IAAa,kBAAb,C;UAAa,WAAAuBAAX,GAAb,C;U
AGI,IAAI,SqJlU8C,OAAAwBAAX,GAAiB,mBAAjB,GAA6C,SAAH,C;YAAaA,OAAAkB,C;;;QqJjUjF,OAAOA,OvJ
oUI,KuJpUX,C;O;K;QvJ6U3C,Q;QADb,YAAY,C;QACC,OAAAuB3D,IAAb,IAAa,kBAAb,C;UAAa,WAAAuBAA
X,GAAb,C;UAGI,IAAI,SqJ9U8C,OAAAwBAAX,GAAiB,mBAAjB,GAA6C,SAAH,C;YAAaA,OAAAkB,C;;;QqJ7U
jF,OAAOA,OvJgVI,KuJhVX,C;O;K;QvJ6VI,Q;QADb,YAAY,C;QACC,OAAAuB3D,OAAb,IAAa,kBAAb,C;UAAa,
WAAAuBAAX,GAAb,C;UAGI,IAAI,SqJ9V8C,OAAAwBAAX,GAAiB,mBAAjB,GAA6C,SAAH,C;YAAaA,OAAAkB,C;
;;QqJ7VjF,OAAOA,OvJgWI,KuJhWX,C;O;K;mDAE5C,iB;MAI4D,c;;QjJ8dJ,Q;QADf,IAAI,We9dJ,2BfI,8BJ0d
A,CAAmC,aAAO,K;UAAP,e;;QAClB,kBAAA6B,wCAAA7B,C;QAAR,OAAQ,iBAAR,C;UAAQ,aAAR,C;UAAQ,4B;
UAAwB,IjJ/d6C,OiJ+d/B,SjJ/d7C,CiJ+d8B,UjJ/d7C,C;YAAwB,aAAO,I;YAAP,e;;;QAC9C,aAAO,K;;;MiJhel
B,OAAgB,OAAA,cjJ+djC,UjJ+d/B,CiJ+d8B,CjJ+d7C,C;UAAwB,OAAO,I;;QiJhelB,OAAgB,yB;UAAM,IAAI,C

;;QAEJ,sBAAO,E;;;MuJvUiD,0B;K;+CAExD,mB;MAA4D,sB;;QvJ2V5D,eAAoB,0BAAa,SAAb,C;QACpB,OAA
O,QAAS,cAAhB,C;UACI,IuJ7VsE,OvJ6VxD,QAAS,WuJ7V+C,UvJ6VtE,C;YACI,qBAAO,QAAS,Y;YAAhB,uB;
;;QAGR,qBAAO,E;;;MuJjWqD,yB;K;0CAE5D,Y;MAA+C,+CAAiB,CAAjB,C;K;kDAE/C,iB;MAAyD,+CAAiB,
KAAjB,C;K;6CAEzD,8B;MAA8D,gCAAQ,IAAR,EAAc,SAAd,EAAyB,OAAzB,C;K;IAElC,wD;MAAgF,uB;MA
A/E,kB;MAAmC,4B;MAC5D,eAAyB,C;MAGrB,+DAAkB,gBAAlB,EAA6B,OAA7B,EAAsC,WAAK,KAA3C,C;
MACA,eAAa,UAAU,gBAAV,I;K;iDAGjB,iB;MACI,+DAAkB,KAAlB,EAAyB,YAAzB,C;MAEA,OAAO,wBAA
K,mBAAY,KAAZ,IAAL,C;K;4FAGY,Y;MAAQ,mB;K;;oCAGnC,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAA
O,I;MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,2DAAc,IAAd,EAAoB,KAApB,C;K;sCAGX,Y;M
AG+B,oEAAgB,IAAhB,C;K;IAE/B,2C;MAAA,oB;MACI,eACsB,C;K;kDAEtB,Y;MAAkC,sBAAQ,gB;K;+CAE1
C,Y;MAEe,gB;MADX,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACX,iE;MAAX,OAAO,+B;K;;IAO0B,sD;M
AHzC,oB;MAGwD,iD;MAGhD,gEAAmB,KAAnB,EAA0B,WAAkB,KAA5C,C;MACA,eAAa,K;K;0DAGjB,Y;M
AAsC,sBAAQ,C;K;wDAE9C,Y;MAAgC,mB;K;uDAEhC,Y;MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;
MAC1B,OAAO,yBAAI,mCAAJ,EAAI,YAAJ,E;K;4DAGX,Y;MAAoC,sBAAQ,CAAR,I;K;;IAGxC,kC;MAAA,sC
;K;iEACI,uB;MACI,IAAI,QAAQ,CAAR,IAAa,SAAS,IAA1B,C;QACI,MAAM,8BAA0B,YAAS,KAAT,gBAAuB,
IAAjD,C;;K;kEAEId,uB;MACI,IAAI,QAAQ,CAAR,IAAa,QAAQ,IAAzB,C;QACI,MAAM,8BAA0B,YAAS,KAAT
,gBAAuB,IAAjD,C;;K;iEAEId,oC;MACI,IAAI,YAAY,CAAZ,IAAiB,UAAU,IAA/B,C;QACI,MAAM,8BAA0B,gB
AAa,SAAb,mBAAkC,OAAlC,gBAAkD,IAA5E,C;;MAEV,IAAI,YAAY,OAAhB,C;QACI,MAAM,gCAAyB,gBA
Aa,SAAb,oBAAmC,OAA5D,C;;K;kEAEId,sC;MACI,IAAI,aAAa,CAAb,IAAkB,WAAW,IAAjC,C;QACI,MAAM,8
BAA0B,iBAAc,UAAd,oBAAqC,QAArC,gBAAsD,IAAhF,C;;MAEV,IAAI,aAAa,OAAjB,C;QACI,MAAM,gCA
AyB,iBAAc,UAAd,qBAAsC,QAA/D,C;;K;+DAId,a;MAEc,UACsB,M;MAFhC,iBAAe,C;MACL,mB;MAAV,OAA
U,cAAV,C;QAAU,sB;QACN,aAAa,OAAO,KAAP,C;QACb,IAAI,aAAJ,C;QACI,MAAM,gCAAyB,SAAzB,C;M
ACL,OAAO,K;MAEd,OAAO,K;K;;IAGX,kC;MAAA,sC;K;;MAEf,OAAO,U;K;6DAGX,oB
;MAIiB,Q;MAHb,IAAI,CAAAE,KAAAF,KAAU,KAAAM,KAApB,C;QAA0B,OAA0B,OAAO,K;MAE
jC,mB;MAAV,OAAU,cAAV,C;QAAU,sB;QACN,aAAa,OAAO,KAAP,C;QACb,IAAI,aAAJ,C;QACI,MAAM,g
CAAyB,SAAzB,C;MACL,OAAO,K;MAEd,OAAO,K;K;;MAIX,OAAO,I;K;;MAGX,OAAO,I;K;6DAGX,oB;
MAAoC,sBAAQ,C;K;;MAIiB,Q;MAHb,IAAI,CAAAE,KAAAF,KAAU,KAAAM,KAApB,C;QAA0B,OAA0B
,OAAO,K;MAEjC,mB;MAAV,OAAU,cAAV,C;QAAU,sB;QACN,aAAa,OAAO,KAAP,C;QACb,IAAI,aAAJ,
C;QACI,MAAM,gCAAyB,SAAzB,C;MACL,OAAO,K;MAEd,OAAO,K;K;;MAIX,OAAO,I;K;;MAGX,OA
AO,I;K;;MAGf,OAAO,U;K;;QxJkrDxD,Q;QADhB,IAAI,wCAAsB,mBAAA1B,C;UAAqC,aAAA0O,K;UAA
P,e;;QACrB,2B;QAAhB,OAAAgB,OAAgB,cAAhB,C;UAAgB,yB;UAAAM,IwJlrDwD,OxJkrD1C,Ow
JlrD6C,MAAH,QxJkrDxD,C;YAAAwB,aAAO,I;YAAAP,e;;;QAC9C,aAAO,K;K;;;MwJnrDyD,iB;K;kD
AEhE,iB;MAEI,IAAI,gCAAJ,C;QAA+B,OAAO,K;MACtC,UA
AU,KAAAM,I;MACHbB,YAAY,KAAAM,M;MrKiNO,Q;MqKhNzB,erKgN4C,CAAnB,mDAAAmB,Yq
KhNzB,GrKgNyB,C;MqK9M5C,IAAI,eAAAS,QAAAT,CAAAJ,C;QACI,OAAAA,K;;MAIP,6B;MAAAM,
W;QqK0M1ND,UrK0M0O,K;QqK0KhD,MAAM,gCAAyB,GAAzB,C;;MACX,O
AAO,K;K;;MAIP,6B;K;mCAIX,iB;MAMI,IAAI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,0BA
AJ,C;QAAyB,OAAO,K;MAChC,OAAO,yDAAc,IAAd,EAAoB,KAApB,C;MAChC,OAAO,K;MACJ,MAChC,U
AAU,KAAAM,I;MAAU,KAAAM,I;MrKiNO,Q;MqKhNzB,erKgN4C,C;YAAyB,aAAA1B;YAAP,mBAAA0
B,OAAgB,cAAhB,C;UAAgB,yB;UAAAM,IwJlrDwD,OxJkrD1C,OwJlrD6C,MAAH,QxJkrDxD,C;YAAAwB,aA
AO,I;YAAAP,e;;;QAC9C,aAAO,K;K;;;MwJnrDyD,iB;K;;QxJkJ9C,Q;QAAA,2B;QAAhB,OAAAgB,Ogel
OAAhB,C;UAAgB,yB;UAAAM,IwJlJxC,OwJlJ2C,MAAH,MxJkJtD,C;YAAAwB,aAAO,I;YAAAP,qBAAAO,
O;O;YAAP,uB;;;QAC9C,qBAAO,I;K;;;MwJlJ+C,iB;K;IAEtD,iC;MA

AA,qC;K;4DAEI,a;MAAiE,gC;MAAX,OAAU,CAAC,kBAAN,CAAM,0DAAmB,CAApB,KAA4B,oBAAjC,CAA
iC,8DAAqB,CAAjD,C;K;4DAChE,a;MAAyD,OAAU,SAAL,CAAO,IAAF,mBAAL,CAAY,MAAP,C;K;0DACnE,
oB;MACI,IAAI,gCAAJ,C;QAA+B,OAAO,K;MACtC,OAAO,OAAA,CAAE,IAAF,EAAS,KAAM,IAAf,KAAsB,O
AAA,CAAE,MAAF,EAAW,KAAM,MAAjB,C;K;;;IANrC,6C;MAAA,4C;QAAA,2B;;MAAA,qC;K;;IChIqC,uB;
MAkBrC,mC;MAlB+D,6B;K;mCAE/D,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,0BAAJ,
C;QAAsB,OAAO,K;MAC7B,OAAO,sDAAU,IAAV,EAAgB,KAAhB,C;K;qCAGX,Y;MAG+B,qEAAkB,IAAlB,C
;K;IAE/B,iC;MAAA,qC;K;gEACI,a;MAEoB,Q;MADhB,iBAAe,C;MACC,mB;MAAhB,OAAgB,cAAhB,C;QAAg
B,yB;QAACC,U;QAAb,2BAAa,yEAAuB,CAApC,K;;MAEJ,OAAO,U;K;;wDAGX,oB;MACI,IAAI,CAAE,KAAF,K
AAU,KAAM,KAApB,C;QAA0B,OAAO,K;MACjC,OAAO,CvK4OsG,qBuK5OxF,KvK4OwF,C;K;;;IuKvPrH,6C;
MAAA,4C;QAAA,2B;;MAAA,qC;K;;;MCghBA,kC;MA9hBA,cAAwB,C;MACxB,yB;MAEA,sBAAyB,C;;kFAAz
B,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;4CA8BA,uB;MAOI,IAAI,cAAc,CAAlB,C;QAAqB,MAAM,6BAAsB,
mBAAtB,C;MAC3B,IAAI,eAAe,kBAAAY,OAA/B,C;QAAqC,M;MACrC,IAAI,uBAAgB,qDAApB,C;QACI,qBAA
c,gBAAyB,gBAAZ,WAAY,EAAc,EAAd,CAAzB,O;QACd,M;;MAGJ,kBAAkB,uDAAY,kBAAY,OAAxB,EAA8
B,WAA9B,C;MAClB,oBAAa,WAAb,C;K;0CAGJ,uB;MAII,kBAAkB,gBAAmB,WAAnB,O;M/J20BtB,U+J10BI,k
B/J00BJ,E+J10ByB,W/J00BzB,E+J10BsC,C/J00BtC,E+J10ByC,W/J00BzC,E+J10B+C,kBAAY,O/J00B3D,C;MA
AA,U+Jz0BI,kB/Jy0BJ,E+Jz0ByB,W/Jy0BzB,E+Jz0BsC,kBAAY,OAAZ,GAAmB,WAAnB,I/Jy0BtC,E+Jz0B+D,
C/Jy0B/D,E+Jz0BkE,W/Jy0BlE,C;M+Jx0BI,cAAO,C;MACP,qBAAc,W;K;yCAGlB,yB;MAGW,Q;MAAP,OAAO,
2BAAY,aAAZ,4D;K;yCAGX,iB;MAA2C,OAAI,SAAS,kBAAY,OAAZzB,GAA+B,QAAQ,kBAAY,OAApB,IAA/B
,GAA6D,K;K;K;2CAExF,iB;MACoD,0BAAY,cAAAO,KAAP,IAAZ,C;K;yCAEpD,iB;MAA2C,OAAI,UAAqB,cAAZ,
kBAAY,CAAAzB,G,AAoC,CAApC,GAA2C,QAAAQ,CAAAR,I;K;yCAEtF,iB;MAA2C,OAAI,UAAS,CAAAb,GAA4B,c
AAZ,kBAAY,CA
A5B,GAA2C,QAAAQ,CAAAR,I;K;mCAEtF,Y;MAAAkC,qBAAAQ,C;K;iCAE1C,Y;MAGwB,IAAI,cAAAJ,C;QAAe,MA
AM,2BAAuB,sBAAAvB,C;;QAnBlC,Q;QAAmBa,OAnBbb,2BAAmBkG,WAnBlG,4D;;K;uCAqBX,Y;MAG+B,Q;MAA
A,IAAI,cAAAJ,C;QAAe,MAAM,2BAAuB,sBAAAvB,C;;QAvBlC,Q;QAwBI,IAAY,OAAAxBnC,U;QAAwBoB,OAx
BpB,6BAAwByD,WAxBzD,gE;;K;;MAwBoB,W;K;gCAE/B,Y;MAGuB,IAAI,cAAAJ,C;QAAe,MAAM,2BAAuB,sBA
AvB,C;;QA7BlB,Q;QA6BY,OA7BZ,2BAQyC,mBAAAY,cAAqB0D,sBAArB1D,IAAZ,CARzC,4D;;K;sCA+BX,Y;MAG
+B,Q;MAAA,IAAI,cAAAJ,C;QAAe,MAAM,2BAAuB,sBAAvB,C;;QAlClC,Q;QAmCI,OAnCJ,OAAe,IAAfO,Ae,
I;;QAlClC
C,U;QAkCmB,OAlCnB,6BAAQyC,mBAAAY,cA0BiB,sBA1BjB,IAAZ,CAAqB,6DAQyC,mBAAAY,cAAqB0D,sBAAr
B1D,IAAZ,CARzC,gE;;K;;MAkCmB,W;K;0CAE9B,9B;MAII,sBAAAe,YAAO,CAAAP,IAAf,C;MAEA,cAAO,mBA
AAY,WAAZ,C;MACP,mBAAAY,WAAAZ,IAAoB,O;K;yCAGJ,mB;MAII,sBAAAe,YAAO,CAAAP,IAAf,C;MAEA,m
BA7CgD,mBAAAY,cA6ClC,SA7C
kC,IAAZ,CA6ChD,IAAAmC,O;MACnC,wBAAAQ,CAAAR,I;K;uCAGJ,Y;MAII,IAAI,cAAAJ,C;QAAe,MAAM,2B
AAuB,sBAAAvB,C;;QA7Dd,Q;QA6DY,OA7DZ,mBAAAY,WAAZ,C;MA7Dd,Q;QA+DY,mBAAAY,WAAZ,C;MAC
P,wBAAAQ,CAAAR,I;K;MACA,OAAO,O;K;;;6CAGX,Y;MAGqC,OAAAI,cAAAJ,GAAAe,IAAf,GAAAyB,kB;K;;;sC
AE9D,Y;MAII,IAAI,cAAAJ,C;QAAe,MAAM,2BAAuB,sBAAAvB,C;;QA7Dd,Q;QA6DY,mBAAAY,WAAZ,C;MA
ErB,wBAAAzEgD,mBAAAY,cAyEtB,SAzEsC,IAAZ,CAyEd,IAAAmC,O;MACnC,wBAAAQ,CAAAR,I;K;MARzC,
Q;QAkFP,cAAFO,2BAAkFmB,iBAAlFnB,4D;MAmFP,mBAAAY,iBAAAZ,IAAAoC,I;K;MACjC,wBAAAQ,CAAAR,
I;K;MACA,OAAO,O;K;;;4CAGX,Y;MAGoC,OAAAI,cAAAJ,GAAAe,IAAf,GAAAyB,iB;K;K;qCAE7D,mB;MAEI,m
BAAAQ,OAAAR,C;MACA,OAAAO,I;K;uCAGX,0B;MACI,oCAAa,4BAAAmB,KAAAnB,EAAAA0B,B;K;K;MAEb,I
AAI,UAAS,SAAAb,C;QACI,mBAAAQ,OAAAR,C;QACA,M;aACG,IAAY,OAAAxB6D,oBA
AAjIgD,mBAAAY,cAACAAP,IAAZ,C;MAmBP,mBAAAY,iB;QAAA,cAi11B,KAAjI0B,KAAj10B,I;K;K;MAACnD,wB
AAAQ,OAAR,C;MACA,OAAAO,I;K;K;MAs11B,I;K;;;MAs11B,K;K;;;MAA2C,uBAAAQ,OAAAR,C;QAAM,OAA
AO,I;K;K;;;;MAt11BxD,4C;MAAA,4C;QAAA,2B;;MAAA,qC;K;K;;;MAAM,OAAAO,I;K;;;IAt11BxD,4C;MAA
A,4C;QAAA,2B;;MAAA,qC;K;;;MAAM,oCAAAa,4BAAAmB,KAAAnB,EAAAA0B,B;K;K;MAEb,EAAA0B,B;K;;
;MAAM,oBAAAjIgD,mBAAAY,cAAAP,IAAZ,C;;;MAA2C,uBAAAQ,OAAAR,C;;;MAAM,OAAAO,I;K;QAEI,+
BAAA+B,mBAAAY,aAAAZ,C;QAAC/B,sBAAAsB,EsB,
BAAsB,mBAAAY,WAAAZ,C;QAAC,OAAAlE,I;K;QAEtB,IAAAIAAI,4BAAA4B,WAAAhC,C;K;U/JgrB3C,U+J/
qBY,kB/J+qBZ,E+J/qBiC,kB/J+qBjC,E+J/qB8C,W/J+qB9C,E+J/qBoD,cAAO,CAAP,I/J+qBpD,E+/
J+qB8D,2BAA2B,CAA3B,I/J+qB9D,C;;;UAAA,U+J7qBY,kB/J6qBZ,E+J7qBiC,kB/J6qBjC,E+J7qB8C,cAAO,CA
AP,I/J6qB9C,E+J7qBwD,W/J6qBxD,E+J7qB8D,kBAAY,O/J6qB1E,C;U+J5qBY,mBAAY,kBAAY,OAAZ,GAAmB,
CAAnB,IAAZ,IAAoC,mBAAY,CAAZ,C;;;UAAA,U+J4qBhD,U+J3qBY,kB/J2qBZ,E+J3qBiC,kB/J2qBjC,E+J3qB8C,C
/J2qB9C,E+J3qBiD,C/J2qBjD,E+J3qBoD,2BAA2B,CAA3B,I/J2qBpD,C;;;Q+JxqBQ,mBAAY,wBAAZ,IAAwC,O;Q
ACxC,cAAO,e;;;QAGP,WArJ4C,mBAAY,cAqJ/B,SArJ+B,IAAZ,C;QAuJ+B,IAAAZ,C;QAAuJ5C,IAAI,gBAAgb,
IAAAAbB,C;U/JkqBR,U+JjqBY,kB/JiqBZ,E+JjqBiC,kB/JiqBjC,E+JjqB8C,gBAAgB,CAAhB,I/JiqB9C,E+JiqB9C,E+
JjqBiE,a/JiqBjE,E+JjqBgF,I/JiqBhF,C;;;UAAA,U+JpqBY,kB/JpqBZ,E+JpqBiC,kB/JpqBjC,E+JpqB8C,C/JpqB9C,E
+JpqBiD,C/JpqBjD,E+JpqBoD,I/J+

pBpD,C;U+J9pBY,mBAAY,CAAZ,IAAiB,mBAAY,kBAAY,OAAZ,GAAmB,CAAnB,IAAZ,C;U/J8pB7B,U+J7p
BY,kB/J6pBZ,E+J7pBiC,kB/J6pBjC,E+J7pB8C,gBAAgB,CAAhB,I/J6pB9C,E+J7pBiE,a/J6pBjE,E+J7pBgF,kBA8
AY,OAAZ,GAAmB,CAAnB,I/J6pBhF,C;;Q+J1pBQ,mBAAY,aAAZ,IAA6B,O;;MAEjC,wBAAQ,CAAR,I;K;oDA
GJ,mC;MAGkD,UAIxB,M;MANtB,eAAe,QAAS,W;MAEsB,OAAZ,kBAAY,O;MAA9C,iBAAc,aAAd,wB;QACI,
IAAI,CAAC,QAAS,UAAd,C;UAAyB,K;QACzB,mBAAY,KAAZ,IAAqB,QAAS,O;;MAEZ,oB;MAAtB,mBAAc,
CAAd,8B;QACI,IAAI,CAAC,QAAS,UAAd,C;UAAyB,K;QACzB,mBAAY,OAAZ,IAAqB,QAAS,O;;MAGlC,wB
AAQ,QAAS,KAAjB,I;K;0CAGJ,oB;MACI,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAC/B,sBAAe,IAAK,KAA
L,GAAY,QAAS,KAArB,IAAf,C;MACA,8BAtLgD,mBAAY,cAsLvB,SAtLuB,IAAZ,CAsLhD,EAA4C,QAA5C,C;
MACA,OAAO,I;K;0CAGX,2B;MACI,oCAAa,4BAAmB,KAAnB,EAA0B,SAA1B,C;MAEb,IAAI,QAAS,UAAb,
C;QACI,OAAO,K;aACJ,IAAI,UAAS,SAAb,C;QACH,OAAO,oBAAO,QAAP,C;;MAGX,sBAAe,IAAK,KAAL,G
AAY,QAAS,KAArB,IAAf,C;MAEA,WArMgD,mBAAY,cAqMnC,SArMmC,IAAZ,C;MAsMhD,oBAtMgD,mBA
AY,cAsM1B,KAtM0B,IAAZ,C;MAuMhD,mBAAmB,QAAS,K;MAE5B,IAAI,QAAS,SAAD,GAAQ,CAAR,IAAe,
CAA3B,C;QAGI,kBAAkB,cAAO,YAAP,I;QAElB,IAAI,iBAAiB,WAAArB,C;UACI,IAAI,eAAe,CAAnB,C;Y/J0m
BZ,U+JzmBgB,kB/JymBhB,E+JzmBqC,kB/JymBrC,E+JzmBkD,W/JymBlD,E+JzmB+D,W/JymB/D,E+JzmBqE,a/
JymBrE,C;;Y+JvmBgB,4BAAe,kBAAY,OAA3B,I;YACA,sBAAsB,gBAAgB,WAAhB,I;YACtB,kBAAkB,kBAA
Y,OAAZ,GAAmB,WAAnB,I;YAElB,IAAI,eAAe,eAAnB,C;c/JmmBhB,U+JlmBoB,kB/JkmBpB,E+JlmByC,kB/Jk
mBzC,E+JlmBsD,W/JkmBtD,E+JlmBmE,W/JkmBnE,E+JlmByE,a/JkmBzE,C;;cAAA,U+JhmBoB,kB/JgmBpB,E+
JhmByC,kB/JgmBzC,E+JhmBsD,W/JgmBtD,E+JhmBmE,W/JgmBnE,E+JhmByE,cAAO,WAAP,I/JgmBzE,C;cAA
A,U+J/lBoB,kB/J+lBpB,E+J/lByC,kB/J+lBzC,E+J/lBsD,C/J+lBtD,E+J/lByD,cAAO,WAAP,I/J+lBzD,E+J/lB6E,a/J
+lB7E,C;;;;UAAA,U+J3lBY,kB/J2lBZ,E+J3lBiC,kB/J2lBjC,E+J3lB8C,W/J2lB9C,E+J3lB2D,W/J2lB3D,E+J3lBiE,
kBAAY,O/J2lB7E,C;U+J1lBY,IAAI,gBAAgB,aAApB,C;Y/J0lBZ,U+JzlBgB,kB/JylBhB,E+JzlBqC,kB/JylBrC,E+J
zlBkD,kBAAY,OAAZ,GAAmB,YAAnB,I/JylBlD,E+JzlBmF,C/JylBnF,E+JzlBsF,a/JylBtF,C;;YAAA,U+JvlBgB,k
B/JulBhB,E+JvlBqC,kB/JulBrC,E+JvlBkD,kBAAY,OAAZ,GAAmB,YAAnB,I/JulBlD,E+JvlBmF,C/JulBnF,E+Jvl
BsF,Y/JulBtF,C;YAAA,U+JtlBgB,kB/JslBhB,E+JtlBqC,kB/JslBrC,E+JtlBkD,C/JslBlD,E+JtlBqD,Y/JslBrD,E+JtlB
mE,a/JslBnE,C;;;Q+JnlBQ,cAAO,W;QACP,8BAAuB,mBAAY,gBAAgB,YAAhB,IAAZ,CAAvB,EAAkE,QAAlE,
C;;QAIA,2BAA2B,gBAAgB,YAAhB,I;QAE3B,IAAI,gBAAgB,IAApB,C;UACI,IAAI,QAAO,YAAP,SAAuB,kBA
AY,OAAvC,C;Y/J2kBZ,U+J1kBgB,kB/J0kBhB,E+J1kBqC,kB/J0kBrC,E+J1kBkD,oB/J0kBlD,E+J1kBwE,a/J0kBx
E,E+J1kBuF,I/J0kBvF,C;;Y+JxkBgB,IAAI,wBAAwB,kBAAY,OAAxC,C;c/JwkBhB,U+JvkBoB,kB/JukBpB,E+Jv
kByC,kB/JukBzC,E+JvkBsD,uBAAuB,kBAAY,OAAnC,I/JukBtD,E+JvkBkB+F,a/JukB/F,E+JvkB8G,I/JukB9G,C;;c+
JrkBoB,mBAAmB,OAAO,YAAP,GAAsB,kBAAtB,I;c/JqkBpB,U+JpkBwB,kB/JokBxB,E+JpkB6C,kB/JokB7C,E+J
pkB0D,Y/JokB1D,E+JpkBsE,Y/JokBtE,E+JpkBkF,a/JokBlF,C;;;Y+JlkBgB,IAAI,wBAAwB,YAA5B,C;c/JkkBhB,
U+JjkBoB,kB/JikBpB,E+JjkByC,kB/JikBzC,E+JjkBsD,oB/JikBtD,E+JjkByD,Y/JikBzD,E+JjkB8E,I/JikB9E,C;;c+Jfk
BoB,mBAAmB,OAAO,YAAP,GAAsB,kBAAtB,I;c/JekBpB,U+JdkBwB,kB/JckBxB,E+JdkB6C,kB/JckB7C,E+JdkB
0D,Y/JckB1D,E+JdkBsE,oB/JckBtE,E+JdkB4E,a/JckB5E,E+JdkB2F,OAAO,YAAP,GAAsB,kB/JckB3F,C;;;;UAAA,
U+JTkBY,kB/JSkBZ,E+JTkBiC,kB/JSkBjC,E+JTkB8C,Y/JSkB9C,E+JTkB4D,C/JSkB5D,E+JTkB+D,I/JSkB/D,C;U
+J9jBY,IAAI,wBAAwB,YAA5B,C;Y/J8jBZ,U+J7jBgB,kB/J6jBhB,E+J7jBqC,kB/J6jBrC,E+J7jBkD,uBA
AuB,kBAAY,OAAnC,I/J6jBlD,E+J7jB2F,a/J6jB3F,E+J7jB0G,kBAAY,O/J6jBtH,C;;YAAA,U+J3jBgB,kB/J2jBhB
,E+J3jBqC,kB/J2jBrC,E+J3jBkD,C/J2jBlD,E+J3jBqD,kBAAY,OAAZ,GAAmB,YAAnB,I/J2jBrD,E+J3jBsF,kBA
AY,O/J2jBlG,C;YAAA,U+J1jBgB,kB/J0jBhB,E+J1jBqC,kB/J0jBrC,E+J1jBkD,oB/J0jBlD,E+J1jBwE,a/J0jBxE,E+
J1jBuF,kBAAY,OAAZ,GAAmB,YAAnB,I/J0jBvF,C;;;Q+JvjBQ,8BAAuB,aAAvB,EAAsC,QAAtC,C;;MAGJ,OA
AO,I;K;uCAGX,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAzB,C;MAjRN,Q;MAmRP,OAnRO,2BAAQyC,m
BAAY,cA2Q3B,KA3Q2B,IAAZ,CARzC,4D;K;uCAsRX,0B;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAzB,C;
MAEb,oBAAjRgD,mBAAY,cAiR1B,IAAjR0B,IAAZ,C;MARzC,Q;MA0RP,iBA1RO,2BA0Q0RsB,aA1RtB,4D;MA2R
P,mBAAY,aAAZ,IAA6B,O;MAE7B,OAAO,U;K;0CAGX,mB;MAAoD,0BAAQ,OAAR,MAAoB,E;K;yCAExE,m
B;MAIsB,IAIA,IAJA,EAIuB,M;MAPzC,WA3RgD,mBAAY,cA3RnC,SA3RmC,IAAZ,C;MA6RhD,IAAI,cAAO,I
AAX,C;QACI,iBAAc,WAAd,UAAyB,IAAzB,U;UACI,IAAI,gBAAW,mBAAY,KAAZ,CAAX,CAAJ,C;YAAmC,
OAAO,QAAQ,WAAR,I;;QAE9C,aAE3C,IAAI,eAAQ,IAAZ,C;QAACW,kB;QAAuB,SAAZ,kBAAY,O;QAArC,qD;
UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CAAJ,C;YAAmC,OAAO,UAAQ,kBAAY,OAApB,GAAA2B,WAAA3
B,I;;;MAIlD,OAAO,E;K;6CAGX,mB;MAIsB,IAOJ,MAPI,EAOa,M;MAV/B,MAAsC,UAOJ,MAPI,EAOa,M;
B;MAIsC,UAOJ,MAPI,EAOa,M;MAPzC,WA9RgD,mBAAY,cA8

SnC,SA9SmC,IAAZ,C;MAgThD,IAAI,cAAO,IAAX,C;QACkC,kB;QAA9B,iBAAc,OAAO,CAAP,IAAd,yB;UAC
I,IAAI,gBAAW,mBAAY,KAAZ,CAAX,CAAJ,C;YAAmC,OAAO,QAAQ,WAAR,I;;aAE3C,IAAI,cAAO,IAAX,C
;QACH,mBAAc,OAAO,CAAP,IAAd,aAA8B,CAA9B,Y;UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CAAJ,C;Y
AAmC,OAAO,UAAQ,kBAAY,OAApB,GAA2B,WAA3B,I;;QAEpB,uBAAZ,kBAAY,C;QAAiB,oB;QAA3C,wD;
UACI,IAAI,gBAAW,mBAAY,OAAZ,CAAX,CAAJ,C;YAAmC,OAAO,UAAQ,WAAR,I;;;MAIlD,OAAO,E;K;wC
AGX,mB;MACI,YAAY,mBAAQ,OAAR,C;MACZ,IAAI,UAAS,EAAb,C;QAAiB,OAAO,K;MACxB,sBAAS,KA
AT,C;MACA,OAAO,I;K;4CAGX,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAzB,C;MAEb,IAAI,UAAS,sBA
Ab,C;QACI,OAAO,iB;aAACJ,IAAI,UAAS,CAAb,C;QACH,OAAO,kB;;MAGX,oBAhVgD,mBAAY,cAgV1B,KAh
V0B,IAAZ,C;MARzC,Q;MAyVP,cAzVO,2BAyVmB,aAzVnB,4D;MA2VP,IAAI,QAAQ,aAAS,CAArB,C;QAEI,I
AAI,iBAAiB,WAArB,C;U/JoeR,U+JneY,kB;JmeZ,E+JneiC,kB;JmejC,E+Jne8C,cAAO,CAAP,I/Jme9C,E+JnewD,
W/JmexD,E+Jne8D,a/Jme9D,C;;UAAA,U+JjeY,kB;JieZ,E+JjeiC,kB;JiejC,E+Jje8C,C/Jie9C,E+JjeiD,C/JiejD,E+Jje
oD,a/JiepD,C;U+JheY,mBAAY,CAAZ,IAAiB,mBAAY,kBAAY,OAAZ,GAAmB,CAAnB,IAAZ,C;U/Jge7B,U+J/d
Y,kB;J+dZ,E+J/diC,kB;J+djC,E+J/d8C,cAAO,CAAP,I/J+d9C,E+J/dwD,W/J+dxD,E+J/d8D,kBAAY,OAAZ,GAA
mB,CAAnB,I/J+d9D,C;;Q+J5dQ,mBAAY,WAAZ,IAAoB,I;QACpB,cAAO,mBAAY,WAAZ,C;;QAGP,wBAjW4C
,mBAAY,cAiWlB,sBAjWkB,IAAZ,C;QAAmW5C,IAAI,iBAAiB,iBAArB,C;U/JsdR,U+JrdY,kB;JqdZ,E+JrdiC,kB;J
qdjC,E+Jrd8C,a/Jqd9C,E+Jrd6D,gBAAgB,CAAhB,I/Jqd7D,E+JrdgF,oBAAoB,CAApB,I/JqdhF,C;;UAAA,U+JndY
,kB;JmdZ,E+JndiC,kB;JmdjC,E+Jnd8C,a/Jmd9C,E+Jnd6D,gBAAgB,CAAhB,I/Jmd7D,E+JndgF,kBAAY,O/Jmd5F
,C;U+JldY,mBAAY,kBAAY,OAAZ,GAAmB,CAAnB,IAAZ,IAAoC,mBAAY,CAAZ,C;U/JkdhD,U+JjdY,kB;JidZ
,E+JjdiC,kB;JidjC,E+Jjd8C,C/Jid9C,E+JjdiD,C/JidjD,E+JjdoD,oBAAoB,CAApB,I/JidpD,C;;Q+J9cQ,mBAAY,iBA
AZ,IAAiC,I;;MAErC,wBAAQ,CAAR,I;MAEA,OAAO,O;K;6CAGX,oB;MAAkE,0B;;QAa5C,wD;QART,aAAL,I
AAK,U;QAAL,Y;UAA8B,SAAAZ,kB9K6wOnB,YAAQ,C;;Q8K7wOX,W;UAACI,yBAAO,K;UAAAP,2B;;QAEJ,WA
1XgD,mBAAY,cA0XnC,SA1XmC,IAAZ,C;QA2XhD,cAAc,W;QACd,eAAe,K;QAEf,IAAI,cAAO,IAAX,C;UACI,
iBAAc,WAAd,UAAyB,IAAzB,U;YACI,cAAc,mBAAY,KAAZ,C;YAGd,IAjBsE,CAAU,wBAiBiBlE,0EAjBjBkE,CAi
BhF,C;ccACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,O;;;ccAEzB,WAAW,I;;UAGP,OAAZ,kBAAY,EAAK,IAA
L,EAAW,OAAX,EAAoB,IAApB,C;;;UAGE,oB;UAAuB,SAAZ,kBAAY,O;UAArC,uD;YACI,gBAAc,mBAAY,O
AAZ,C;YACd,mBAAY,OAAZ,IAAqB,I;YAGrB,IA/BsE,CAAU,wBA+BQBlE,kFA/BBkE,CA+BBhF,C;ccACI,mBAAY,g
BAAZ,EAAY,wBAAZ,YAAyB,S;;;ccAEzB,WAAW,I;;UAGnB,UAAU,mBAAY,OAAZ,C;UAAEV,mBAAc,CAAd,Y
AAsB,IAAtB,Y;YACI,gBAAc,mBAAY,OAAZ,C;YACd,mBAAY,OAAZ,IAAqB,I;YAGrB,IA5CsE,CAAU,wBA4C4ClE,k
ClE,kFA5CkE,CA4C4hF,C;ccACI,mBAAY,OAAZ,IAAuB,S;cACvB,UAAU,mBAAY,OAAZ,C;;;ccAEV,WAAW,I;;;;QAIv
B,IAAI,QAAAJ,kBAAQ,C;;;MAvDuD,6B;K;6CAEl
E,oB;MAAkE,0B;;QAW5C,wD;QART,aAAL,IAAK,U;QAAL,Y;UAA8B,SAAAZ,kB9K6wOnB,YAAQ,C;;Q8K7w
OX,W;UAACI,yBAAO,K;UAAAP,2B;;QAEJ,WA1XgD,mBAAY,cA0XnC,SA1XmC,IAAZ,C;QA2XhD,cAAc,W;QA
Cd,eAAe,K;QAEf,IAAI,cAAO,IAAX,C;UACI,iBAAc,WAAd,UAAyB,IAAzB,U;YACI,cAAc,mBAAY,KAAZ,C;
YAGd,IAf+E,wBAAejE,0EAAfiE,CAe/E,C;ccACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,O;;;ccAEzB,WAAW,I;;U
AGP,OAAZ,kBAAY,EAAK,IAAL,EAAW,OAAX,EAAoB,IAApB,C;;;UAGE,oB;UAAuB,SAAZ,kBAAY,O;UAArC,
uD;YACI,gBAAc,mBAAY,OAAZ,C;YACd,mBAAY,OAAZ,IAAqB,I;YAGrB,IA7B+E,wBAAejE,kFAAfiE,CA6B/E,C;cc
ACI,mBAAY,gBAAZ,EAAY,wBAAZ,YAAyB,S;;;c
cAEV,WAAW,I;;;;QIv,QAIvB,IAAI,QAAAJ,kBAAQ,C;;;MArDoD,6B;K;;;MArD
uD,6B;K;2CAElE,qB;MASsB,IAII,IAJJ,EAKM,MALN,EAaa,MAba,EAauB,MAbvB,EAkBI,MAlBJ,EAmBM,M
AnBN,EA+BI,M;MAvCb,aAAL,IAAK,U;MAAL,Y;UAA8B,SAAZ,kB9K6wOnB,YAAQ,C;;M8K7wOX,W;UQACI
,OAAO,K;MAEX,WA1XgD,mBAAY,cA0XnC,SA1XmC,IAAZ,C;MA2XhD,cAAc,W;MACd,eAAe,K;MAEf,IAA
I,cAAO,IAAX,C;UACI,iBAAc,WAAd,UAAyB,IAAzB,U;UAAE,cAAc,mBAAY,KAAZ,C;;YAEzB,WAAW,I;;
QAGP,OAAZ,kBAAY,EAA K,IAAL,EAAW,OAAX,EAAoB,IAApB,C;;;YAAE,oB;QAAuB,SAAZ,kBAAY,O;;QAA
AAY,OAAZ,C;UACd,mBAAY,OAAZ,IAAqB,I;UAGrB,IAGrB,IAAAI,UAAU,kFAAV,CAAJ,C;YACI,mBAAY,gBAAZ,E
AAY,wBAAZ,YAAyB,S;;;YAAE,WAAW,I;;QAGnB,UAAU,mBAAY,OAAZ,C;UAACd,mBAAY,OAAZ,IAAqB,I;Q;UAGrB,IAAAGrB,IAAI,UAAU,kFAAV,CAAJ,C;YACI,mBAAY,gBAAZ,E
AAY,wBAAZ,YAAyB,S;;;YAAE,WAAW,I;;QAGnB,UAAU,mBAAY,OAAZ,C;UAACd,mBAAY,OAAZ,IAAqB,I;Q;UAGrB,IAAI,UAAU,kFAAV,CAAJ,C;YACI,mBAAY,OAAZ,IAAuB,S;YACvB,UAAU,mBAAY,OAAZ,C;;;YAAE,WAAW,I;;;;M
AAY,OAAZ,C;UACd,mBAAY,OAAZ,IAAqB,I;UAGrB,IAGrB,IAAI,UAAU,kFAAV,CAAJ,C;YACI,mBAAY,gBAAZ,E
AAY,wBAAZ,YAAyB,S;;;YAAE,WAAW,I;;QAGnB,UAAU,mBAAY,OAAZ,C;UAACd,mBAAY,OAAZ,IAAqB,I;Q;UAGrB,IAAI,UAAU,kFAAV,CAAJ,C;YACI,mBAAY,OAAZ,IAAuB,S;YACvB,UAAU,mBAAY,OAAZ,C;;;YAAE,WAAW,I;;;;M

AAtB,Y;UACI,gBAAc,mBAAY,OAAZ,C;UACd,mBAAY,OAAZ,IAAqB,I;UAGrB,IAAI,UAAU,kFAAV,CAAJ,
C;YACI,mBAAY,OAAZ,IAAuB,S;YACvB,UAAU,mBAAY,OAAZ,C;;YAEV,WAAW,I;;;;MAIvB,IAAI,QAAJ,C
;QACI,YAAO,mBAAY,UAAU,WAAV,IAAZ,C;MAEX,OAAO,Q;K;iCAGX,Y;MACI,WA7agD,mBAAY,cA6an
C,SA7amC,IAAZ,C;MA8ahD,IAAI,cAAO,IAAX,C;QACgB,OAAZ,kBAAY,EAAK,IAAL,EAAW,WAAX,EAAiB
,IAAjB,C;;QACT,IxKtS6C,CAAC,cwKsS9C,C;UACS,OAAZ,kBAAY,EAAK,IAAL,EAAW,WAAX,EAAiB,kBA
AY,OAA7B,C;UACA,OAAZ,kBAAY,EAAK,IAAL,EAAW,CAAX,EAAc,IAAd,C;;;MAEhB,cAAO,C;MACP,YA
AO,C;K;2CAGX,iB;MAGe,IAAC,IAAD,EAcJ,M;MAfP,WACW,eAAC,OAAI,KAAM,OAAN,IAAc,SAAlB,GAA
wB,KAAxB,GAAmC,aAAa,KAAb,EAAoB,SAAApB,CAAApC,uB;MAEX,WA7bgD,mBAAY,cA6bnC,SA7bmC,IA
AZ,C;MA8bhD,IAAI,cAAO,IAAX,C;Q/J2XJ,U+J1XQ,kB/J0XR,E+J1X6B,I/J0X7B,EAD+F,CAC/F,E+J1XgD,W/
J0XhD,E+J1XiE,I/J0XjE,C;;Q+JzXW,IxKtT6C,CAAC,cwKsT9C,C;U/JyXX,U+JxXQ,kB/JwXR,E+JxX6B,I/JwX7
B,E+JxXuD,C/JwXvD,E+JxXuE,W/JwXvE,E+JxXwF,kBAAY,O/JwXpG,C;UAAA,U+JvXQ,kB/JuXR,E+JvX6B,I
/JuX7B,E+JvXuD,kBAAY,OAAZ,GAAmB,WAAnB,I/JuXvD,E+JvX6F,C/JuX7F,E+JvX2G,I/JuX3G,C;;;M+JrXI,I
AAI,IAAK,OAAL,GAAY,SAAhB,C;QACI,KAAK,SAAL,IAAa,I;;MAIjB,OAAO,qD;K;mCAGX,Y;MAEI,OAAO
,qBAAQ,gBAAmB,SAAnB,OAAR,C;K;+CAGX,iB;MAC0D,4BAAQ,KAAR,C;K;+CAC1D,Y;MAA0C,qB;K;IAE
1C,gC;MAAA,oC;MACI,0BrHriBuC,E;MqHsiBvC,sBAAiC,U;MACjC,4BAAuC,E;K;yDAEvC,oC;MAEI,kBAAk
B,eAAe,eAAgB,CAA/B,K;MAClB,IAAI,eAAc,WAAd,QAA4B,CAAhC,C;QACI,cAAc,W;MAClB,IAAI,eAAc,U
AAd,QAA6B,CAAjC,C;QACI,cAAkB,cAAc,UAAlB,GAAgC,UAAhC,GAAmD,U;MACrE,OAAO,W;K;;;IAZf,4
C;MAAA,2C;QAAA,0B;;MAAA,oC;K;qDAgBA,qB;MAEI,WAvegD,mBAAY,cAuenC,SAvemC,IAAZ,C;MAwe
hD,WAAe,kBAAa,cAAO,IAAxB,GAA8B,WAA9B,GAAwC,cAAO,kBAAY,OAAnB,I;MACnD,UAAU,IAAV,EA
AgB,cAAhB,C;K;K;;IA5iBJ,iD;MAAA,oD;MAGwC,+B;MApB5C,sB;MAqqBsB,Q;MACV,wBAAmB,CAAnB,C;QA
AwB,4D;WACxB,sBAAkB,CAAlB,C;QAAuB,uBAAoB,eAA7C,C;;MAHlB,0B;MAJJ,Y;K;IAWA,kC;M
AHlB,0B;MAJJ,Y;K;IAWA,kC;MAAA,oD;MAGoB,+B;MA/BxB,sB;MAgCQ,sBAAc,qD;MAJlB,Y;K;IAOA,4C;M
AAA,oD;MAG2C,+B;MAtC/C,sB;MAuCQ,sBzJrB8D,YyJqBhD,QzJrBgD,C;MyJsB9D,aAAO,mBAAY,O;MACn
B,IAAI,mB9K+qPD,YAAQ,C8K/qPX,C;QAA2B,sBAAc,qD;MAN7C,Y;K;IC5BJ,4B;MAMoB,Q;M/KghqBA,U;
MADhB,UAAe,C;MACf,uD;QAAgB,cAAhB,iB;QACI,YAAgB,gBAAA,iB/K;M+KlhqBJ,aAAa,iB/K;M+KlhqBJ,a
AAa,iB/K;M+KlhqBJ,aAAa,iB/K;M+KlhqBJ,a/KohqBN,G+KphqBM,C;MACb,wBAAgB,SAAhB,gB;QAAgB,gBAAA
,SAAhB,M;QACW,SAAP,MAAO,EAAO,SAAP,C;;MAEX,SAAP,MAAO,M;K;IAGX,0B;MASiB,Q;MAFb,YAA
Y,iBAAa,gBAAb,C;MACZ,YAAY,C;MACZ,wBAAgB,SAAhB,M;QAAgB,gBAAA,SAAhB,M;QACW,SAAP,wB
AAa,SAAb,gB;QAAa,gBAAA,SAAb,M;QACW,SAAP,wBAAa,SAAb,M;QAAgb,M;Q/KghqBA,U;MAWW,4B;MAA
A,U;MAAqB,4B;MAAA,U;MAAW,4B;MAAA,U;MASiB,Q;MAFb,4B;MAAA,U;MKghqBB,4B;MAAQ,4B;Mg
GAGvC,iD;MAMI,IAAI,cAAS,KAAb,C;QAAoB,OAAO,I;MAC3B,qBAAgB,aAAA,gBAAhB,K;MAChB,IAA
iC,qBAAgB,aAAA,gBAAhB,K;MAChB,IAAI,cAAS,KAAb,C;QAAoB,OAAO,I;MAC3B,qBAAgB,aAAA,g
BAAhB,K;MAChB,IAAI,cAAS,KAAb,C;QAAoB,OAAO,I;MAC3B,qBAAgB,aAAA,gBAAhB,K;MAChB,IAAI
,cAAS,KAAb,C;QAAoB,OAAO,I;MAC3B,qBAAgB,aAAA,gBAAhB,K;MAChB,IAAI,cAAS,KAAb,C;QAAo
b,OAAO,I;MAC3B,gCAAgB,wBAAA,gBAAhB,K;MAChB,IAAI,cAAS,KAAb,C;QAAob,OAAO,I;MAC3B,q
BAAgB,aAAA,gBAAhB,K;MAChB,IAAI,cAAS,KAAb,C;QAAoib,yBAAA,yBAAhB,K;MAChB,IAAI,cAAS,K
AAb,C;QAAob,OAAO,I;MAC3B,gCAAgb,wBAAA,gBAAhB,K;MAChb,IAAI,cAAS,KAAb,C;QAAob,OAAO,I;M
AC3b,qbAAgb,abAAA,gbAAhb,K;MAChb,IAAI,cAAS,KAAb,C;QAAob,OAAO,I;MAC3b,obAAgb,4bAAA,gbAA
hb,K;MAChb,IAAI,cAAS,KAAb,C;QAAob,OAAO,I;MAC3b,qbAAgb,abAAA,gbAAhb,K;MAChb,IAAI,cAAS,KA
Ab,C;QAAob,OAAO,I;MAC3b,qbAAgb,abAAA,gbAAhb,K;MAChb,IAAI,cAAS,KAAb,C;QAAob,OAAO,I;MAC3b
,qbAAgb,abAAA,gbAAhb,K;MAChb,IAAI,cAAS,KAAb,C;QAAob,OAAO,I;MAC3b,qbAAgb,abAAA,gbAAhb,K;M
AChb,IAAI,cAAS,KAAb,C;QAAob,OAAO,I;MAC3b,gbAAEb,IAAI,YAAM,EAAN,CAAJ,C;UAAc,OAAO,I;M
AIrC,OAAO,I;K;IAGX,4C;MAKI,IAAI,iBAAJ,C;QAAAkB,OAAO,M;MACzB,aAAa,eAAL,gBAAAK,EAAA,
L,gBAAAK,EAAAL,gbAA6b,cAAY,E;M/KghqBA,U;MC6SkB,kBAAxb,mBuC5SY,MvC4SZ,C;MuC3SH,oDzK5Bg
D,gbByK4bhD,C;MADJ,O9JnCO,WuH+U6C,W;K;Iu

CvSxD,mE;MAEI,IAAY,SAAR,0BAAJ,C;QACI,MAAO,gBAAO,OAAP,C;QACP,M;;MAEJ,SAAU,WAAI,SAAJ
,C;MACV,MAAO,gBAAO,EAAP,C;MAEP,4C;QACI,IAAI,MAAK,CAAT,C;UACI,MAAO,gBAAO,IAAP,C;;QA
EX,cAAc,UAAK,CAAL,C;QAEV,IADE,OACF,S;UAAmB,MAAO,gBAAO,MAAP,C;aAC1B,mBAFE,OAEF,E;U
AA2B,4BAAR,OAAQ,EAA4B,MAA5B,EAAoC,SAApC,C;aAC3B,uBAHE,OAGF,E;UAAmB,MAAO,gBAAe,g
BAAR,OAAQ,CAAf,C;aAC1B,wBAJE,OAIF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAf,C;aAC1B,sBAL
E,OAKF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAf,C;aAC1B,uBANE,OAMF,E;UAAmB,MAAO,gBAAe,
gBAAR,OAAQ,CAAf,C;aAC1B,wBAPE,OAOF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAf,C;aAC1B,yB
ARE,OAQF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAf,C;aAC1B,uBATE,OASF,E;UAAmB,MAAO,gBA
Ae,gBAAR,OAAQ,CAAf,C;aAC1B,0BAVE,OAUF,E;UAAmB,MAAO,gBAAe,gBAAR,OAAQ,CAAf,C;aAE1B,k
BAZE,OAYF,c;UAAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAf,C;aAC1B,kBAbE,OAaF,e;UAAmB,MAAO,gBA
Ae,kBAAR,OAAQ,CAAf,C;aAC1B,kBAdE,OAcF,a;UAAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAf,C;aAC1B,k
BAfE,OAeF,c;UAAmB,MAAO,gBAAe,kBAAR,OAAQ,CAAf,C;;UAEP,MAAO,gBAAO,OAAQ,WAAf,C;;MAIl
C,MAAO,gBAAO,EAAP,C;MACP,SAAU,kBAAmB,iBAAV,SAAU,CAAnB,C;K;ICpJd,uC;MAIqD,+CAAwC,iB
AAO,CAA/C,IAAoD,mC;K;IAEzG,4D;MAWQ,kBADE,SACF,O;QADJ,OACc,S;WACV,kBAFE,SAEF,c;QAEQ,
yCAAwB,MAAO,KAAP,GAAc,CAAtC,C;;UAJZ,OAIuD,S;;UAJvD,OAK6B,mBAAL,SAAK,CAAT,GAA+B,sBA
A/B,GAAgD,S;;;QALpE,OAAOgB,oCAAJ,GAA0C,sBAA1C,GAA2D,mB;K;IAG3E,gD;MAWQ,kBADE,SACF,O;
QADJ,OACc,S;WACV,kBAFE,SAEF,c;QAFJ,OAE8B,mBAAL,SAAK,CAAT,GAA+B,sBAA/B,GAAgD,S;;QAFr
E,OAGgB,oCAAJ,GAA0C,sBAA1C,GAA2D,mB;K;IAG3E,kD;MAKI,OAAI,oCAAJ,GAA0C,sBAA1C,GAA2D,o
B;K;IAE/D,kD;MAKI,OAAI,oCAAJ,GAA0C,oBAA1C,GAA2D,iB;K;I1KnD/D,yB;MAAA,6B;K;sCACI,Y;MAA
kC,Y;K;0CAClC,Y;MAAsC,Y;K;wCACtC,Y;MAAgC,Q;K;4CAChC,Y;MAAoC,S;K;mCACpC,Y;MAA+B,MAA
M,6B;K;uCACrC,Y;MAAmC,MAAM,6B;K;;;IAN7C,qC;MAAA,oC;QAAA,mB;;MAAA,6B;K;IASA,qB;MAAA,
yB;MACI,+C;K;iCAEA,iB;MAA4C,qCAAoB,KAAM,U;K;mCACtE,Y;MAA+B,Q;K;mCAC/B,Y;MAAkC,W;K;i
FAEX,Y;MAAQ,Q;K;kCAC/B,Y;MAAkC,W;K;yCAClC,mB;MAAmD,Y;K;8CACnD,oB;MAAmE,OAAA,QAAS
,U;K;sCAE5E,iB;MAAwC,MAAM,8BAA0B,iDAA8C,KAA9C,MAA1B,C;K;wCAC9C,mB;MAA8C,S;K;4CAC9
C,mB;MAAkD,S;K;mCAElD,Y;MAA6C,kC;K;uCAC7C,Y;MAAqD,kC;K;+CACrD,iB;MACI,IAAI,UAAS,CAAb
,C;QAAgB,MAAM,8BAA0B,YAAS,KAAnC,C;MACtB,OAAO,2B;K;0CAGX,8B;MACI,IAAI,cAAa,CAAb,IAA
kB,YAAW,CAAjC,C;QAAoC,OAAAoC,OAAO,I;MAC3C,MAAM,8BAA0B,gBAAa,SAAb,mBAAkC,OAA5D,C;K;wCAG
V,Y;MAAiC,8B;K;;;IA5BrC,iC;MAAA,gC;QAAA,e;;MAAA,yB;K;IA+BA,8D;6BAAkB,SAAlB,EAAoC
,KAApC,C;K;IAAE,5B8C;MAAAC,oB;MAAA0B,0B;K;yFAClC,Y;MAAQ,OAAA,WAAO,O;K;0CACtC,Y;MAAk
C,OAAAOAAA,WNqqP3B,YAAQ,C;K;iDMpqPf,mB;MAA6C,OAAO,SAAP,WAAO,EAAS,OAAT,C;K;sDACpD,oB;M
AAsE,c;;Qc4nDtD,Q;QADhB,IAAI,cd3nDyD,Qc2nDzD,iBd3nDyD,Qc2nDnC,UAA1B,C;UAAqC,aAAA,I;UAAP,e;
;;QACrB,Od5nD6C,Qc4nD7C,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IAAI,Cd5nDkD,oBc4nDvC,Od5
nDuC,Cc4nDtD,C;YAAyB,aAAO,K;YAAP,e;;;QAC/C,aAAuC,oCAAJ,GAAC7D,Y;MAAuC,OAAO,qB
AAP,WAAO,C;K;0CAC9C,Y;MAC+C,gBAAP,W;MAAA,OAAwB,cAAxB,GegKpC,SfhKoC,GekKpC,SN83BoB
,Q;K;;IT7hC5B,qB;MAIsC,8B;K;IAEtC,4B;MAIqD,OAAI,QAAS,OAAT,GAAgB,CAApB,GAAgC,OAAT,QAAS
,CAAhC,GAA8C,W;K;mFAEnG,yB;MAAA,qD;MAAA,mB;QAK0C,kB;O;KAL1C,C;+FAOA,yB;MAAA,+D;M
AAA,mB;QAMwD,uB;O;KANxD,C;2FAQA,yB;MAAA,+D;MAAA,mB;QAMoD,uB;O;KANpD,C;IAQA,mC;M
AKI,OAAI,QAAS,OAAT,GAAgB,CAApB,GAAwB,gBAAxB,GAAyC,iBAAU,sBAAkB,QAAlB,EAAwC,IAAxC
,CAAV,C;K;IAE7C,iC;MAKI,OAAI,QAAS,OAAT,GAAgB,CAApB,GAAwB,gBAAxB,GAAyC,iBAAU,sBAAkB,
QAAlB,EAAwC,IAAxC,CAAV,C;K;IAE7C,gC;MAI2D,OAAI,eAAJ,GAAqB,OAAO,OAAP,CAArB,GAA0C,W;
K;IAErG,mC;MAAImE,OAAAS,cAAT,QAAS,C;K;IAGb,gFAE5E,yB;MAaa,gE;MAbA,6B;QAAyBI,WAAAW,eAduE,
IAAcvE,C;QWCX,iBAAc,CAAd,UXfkF,IWelF,U;UXUA,6B;UeAf2D,IAevD,CWfKt,BNXDsB,CAAJ,C;;QAAfyC
,OAAOS,OAAgB/D,D,I;O;K;IA3fBX,C;8FAaA,yB;MAAA,gE;MAAA,6B;QAKI,OAAY,WAAZ,iBAAc,CAAd,
UAAO,IWAP,U;UXUA,eAAI,KWCtB,BNXDsB,CAAJ,C;;QAAfyC,OAAOS,OAAgB/D,D,I;O;K;IA3fBX,C;QAC7B,OA
AO,I;O;KAdX,C;wFAiBA,yB;MAe1FA,+D;MAf0F,gC;QMe3D2B,cAAyB,oBAAO,OAAP,C;;QgBAMf,IAAI,
cMhBGY,QNeVH,WAAW,CMfD,C;UgBgBmB,OAAO,cAAP,gBAAO,C;;QMhBL,OAAxB,cAAyBY,OAAO,KAAP,
C;;Q5KAtB,WAAW,gBAAX,C;;QAAc,IAAI,cAAa,CAAb,C;UAAgB,O;;QAAXQAACRAAY,OAAxB,gBAAyB,
O;O;KJZX,C;OAAXQAC7B,OAAO,I;O;KAdX,C;wFAiBA,yBbAE,O;8CAgB/B,D,I;O;Kf0fB,gB;QfSGkB,aW3FzB,
W;QXQ2FA,OW1FO,SIZoC,Q;O;O;KfsF/C,C;yFAwBA,yB;MMe3GA,4E;MAAA,gE;MffwF,Mf2GA,0C;QevGI,
qBf2HyB,Qe3HzB,C;QAC8B,gBAAAvbNUAAb,ef0HkB,Qe1HlB,C;Qff0H4B,aAWvHnC,W;QXQuHA,OWtHA,OWt
HO,SIJ4C,Q;O;O;KffsGvD,C;IAiCI,mC;MAAQ,uBAAAG,iBAAO,CAAP,IAAAO,CAAP,IAAH,C;K;IAQR,qC;MAAQ,
OAAAA,SAAK,KAAAL,GAAAY,CAAAZ,I;K;K;4FAAEZ,qB;MAAK4D,D,QAAC,mB;K;K;kGAAE7D,qB;MAAWI,OAAAO,
OAAO,qBAAgB,SAAK,U;K;K;sF

AGhC,yB;MAAA,qD;MAAA,4B;QAKgE,uCAAQ,W;O;KALxE,C;sFAOA,yB;MAAA,qD;MAAA,4B;QAKoD,uC
AAQ,W;O;KAL5D,C;sFAOA,mC;MASI,OAAI,mBAAJ,GAAe,cAAf,GAAmC,S;K;4FAGvC,+B;MAQoH,OAAA,
SAAK,qBAAY,QAAZ,C;K;IAGzH,uC;MAK+E,kBAAAhB,0B;MAAwB,+B;MAAxB,OW5MpD,W;K;IX+MX,yC;
MAAkD,QAAM,cAAN,C;aAC9C,C;UAD8C,OACzC,W;aACL,C;UAF8C,OAEzC,OAAO,sBAAK,CAAL,CAAP,
C;;UAFyC,OAGtC,S;;K;IAGZ,8D;MAgBkE,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACjG,WAAW,c
AAX,EAAiB,SAAjB,EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAEX,OAAO,OAA
O,IAAd,C;QACI,UAAW,GAAY,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAAJ,C;QACb,UAAU,cAAc,M
AAd,EAAsB,OAAtB,C;QAEV,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI,MAAM,CAA
V,C;UACD,OAAO,MAAM,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF,K;K;IAGX,4E
;MAe8E,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MAC7G,WAAW,cAAX,EAAiB,SAAjB,EAA4B,OAA
5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAEX,OAAO,OAAO,IAAd,C;QACI,UAAW,GAAY,GA
AN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAAJ,C;QACb,UAAU,UAAU,UAAW,SAAQ,MAAR,EAAgB,OAAhB,C;QA
ErB,IAAI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI,MAAM,CAAV,C;UACD,OAAO,MAA
M,CAAN,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF,K;K;kGAGX,yB;MAAA,8D;MAAA,4
D;MAsBqC,8D;QAAA,qB;UAAE,qBAAc,iBAAS,EAAT,CAAd,EAA4B,WAA5B,C;S;O;MAtBvC,+D;QAkBI,yB;
UAAA,YAAiB,C;QACjB,uB;UAAA,UAAe,c;QAGf,+BAAa,SAAb,EAAwB,OAAxB,EAAiC,oCAAjC,C;O;KAtB
J,C;IA6BA,mE;MAmBoC,yB;QAAA,YAAiB,C;MAAG,uB;QAAA,UAAe,c;MACnE,WAAW,cAAX,EAAiB,SAA
jB,EAA4B,OAA5B,C;MAEA,UAAU,S;MACV,WAAW,UAAU,CAAV,I;MAEX,OAAO,OAAO,IAAd,C;QACI,U
AAW,GAAY,GAAN,IAAM,KAAK,C;QAC5B,aAAa,sBAAI,GAAJ,C;QACb,UAAU,WAAW,MAAX,C;QAEV,IA
AI,MAAM,CAAV,C;UACI,MAAM,MAAM,CAAN,I;aACL,IAAI,MAAM,CAAV,C;UACD,OAAO,MAAM,CAA
N,I;;UAEP,OAAO,G;;MAEf,OAAO,EAAE,MAAM,CAAN,IAAF,K;K;IAGX,8C;MAMQ,gBAAY,OAAZ,C;QAA
uB,MAAM,gCAAyB,gBAAa,SAAb,mCAAkD,OAAlD,OAAzB,C;WAC7B,gBAAY,CAAZ,C;QAAiB,MAAM,8B
AA0B,gBAAa,SAAb,yBAA1B,C;WACvB,cAAU,IAAV,C;QAAkB,MAAM,8BAA0B,cAAW,OAAX,gCAA2C,IA
A3C,OAA1B,C;K;IAchC,8B;MAEoC,MAAM,wBAAoB,8BAApB,C;K;IAE1C,8B;MAEoC,MAAM,wBAAoB,8B
AApB,C;K;;;;wF2Gjb1C,yB;M1GgCA,wE;M0GhCA,uC;QAmBW,kB1GqBiD,oB;Q0GM9C,Q;QAAA,OAAK,0B;
QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAAZ,C;UAClB,
W1GuKJ,a0GvKgB,G1GuKhB,E0GrMyC,SA8BlB,CAAU,GAAV,EAAe,WAAf,EAA4B,CAA5B,EAA+B,uBAAu
B,CAAC,WAAY,mBAAY,GAAZ,CAAnE,C1GuKvB,C;;Q0GrMMA,OAgCO,W;O;KAnDX,C;4FAsBA,6C;MAwBc
,Q;MAAA,OAAA,SAAK,iB;MAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAk
B,sBAAY,GAAZ,C;UAClB,W1GuKJ,a0GvKgB,G1GuKhB,E0GvKuB,UAAU,GAAV,EAAe,WAAf,EAA4B,CAA
5B,EAA+B,uBAAuB,CAAC,WAAY,mBAAY,GAAZ,CAAnE,C1GuKvB,C;;M0GrKMA,OAAO,W;K;iFAGX,yB;M
AAA,gB;MAAA,8B;M1GtBA,wE;M0GsBA,6D;QAnCW,kB1GqBiD,oB;Q0GM9C,Q;QAAA,OAAK,0B;QAAf,OAA
U,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAAZ,C;UAClB,UA8BwE,U;UA7
B1F,W1GuKJ,a0GvKgB,G1GuKhB,E0G1IkC,UA7BD,GA6BC,EA7BoB,uBAAuB,CAAC,WAAY,mBAAY,GAA
Z,CAAnE,CA6BzC,GAAW,qBA7B3B,GA6B2B,EA7BT,CA6BS,CAAX,GAA6C,UA7BxD,WA6BwD,6DAA5D,EA7BiB,
CA6BjB,C1G0IlC,C;;Q0G3IA,OA1BO,W;O;KAGX,C;kFA0BA,yB;MAAA,gB;MAAA,8B;MAAA,0E;QAlCc,Q;QAAA,
OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBA6DQ,WA7DR,U,WAAY,GAAZ,C;UACV,kBAB
A6DuF,U;U0G1ItE,UA6DuF,U;U0G1IjG,W1GuKJ,a0GvKgB,G1GuKhB,E0G3GiD,UA5DhB,GA4DgB,EA5DK,u
BAAuB,CA4DjE,WA5DiE,mBAAY,GAAZ,CAAnE,C;;Q0G1IA,OA4DF,W;O;KA4DI,C;iFAgCA,yB;MAAA,gB;MA
AA,8B;M1GHhF,wE;M0GGgF,0E;QAlCc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,s
BAAM,CAAN,C;UACV,kBA6DQ,WA3GU,W;U0G3GiB,UA2GQ,W;U0GiBhD,kBAB6B,U;U0GiBhD,UAB6B,U;U
0GiBjG,WAiFhD,kBA2GU,U;U0GiBvG,W1GuKJ,a0GvKgB,G1GuKhB,E0GtKuB,UAAU,GAAV,EAAe,WAAf,EAA4B,
CA5B,EAA+B,uBAAuB,CAAC,WAAY,mBAAY,GAAZ,CAAnE,C;;M0GrKMA,OAAO,W;K;qFAGX,yB;MAAA,g
B;MAAA,8B;M1G9HA,wE;M0G8HA,kE;QAlCc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UA
AU,sBA2GQ,WA3GR,U,WAAY,GAAZ,C;UACV,kBAA6B,U;U0GiBhD,UAB6B,U;U0GiBjG,W1G6DZ,a0GvKgB,
G1GuKh
B,E0G7D+C,UAiFGO,uBAAuB,CA0G9C,WA1G8C,mBAAY,GAAZ,CAiFGA,GA0GjC,kBA1GiC,UA0G9C,U
AiGhD,WA0GgD,6DAiFAvC,EA1GGI,CA0GJ,C1G6D/C,C;;Q0G9DA,OA0GF,W;O;KAvBI,C;qFA0BA,yB;MAAA,g
B;MAAA,8B;M1G9H9HA,kE;QAlCc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sB
AAM,CAAN,C;UACV,kBA2GQ,WA3GU,W;U0G3GkB,UA2GS,W;U0GiBhD,kBA6DQ,WA3GU,W;U0G3GiB,U
A2GQ,W;U0GiBjG,WA6DQ,WAiFGZ,U;U0GiBvG,W1G6D+C,a0GvKgB,G1GuKhB,E0G7D+C,UAiFGI,CA0GJ,
C1G6D/C,C,C;;Q0G9DA,OA0GF,W;O;KAvBI,C;qFA0BA,yB;MAAA,gB;MAAA,8B;M1G9H9HA,kE;QAlCc,Q;QAAA,
OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBA6DQ,WA3GU,W;U0
G3GiB,UA2GQ,W;U0GiBjG,WAiFGZ,a0GvKgB,G1GuKhB,E0G7D7D+C,UA1GO,uBAAuB,CA0GjE,WA1GiE,mB
AAY,GAAZ,C;;Q0G9DA,OA0GF,W;O;KAvBI,C;qFA0BA,yB;MAAA,gB;MAAA,8B;M1G9H9HA,kE;QAlCc,Q;QAAA,
OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UACN,UAAU,sBAAM,CAAN,C;UACV,kBA2GQ,WA3GU,W;U0G
3GiB,UA2GQ,W;U0GiBjG,WAiFGZ,a0GvKgB,G1GuKhB,E0G7D7D+C,C,C;;Q0G9DA,OA0GF,W;O;KAvBI,C;qFA0
BA,yB;MAAA,gB;MAAA,8B;M1G9H9HA,kE;QAlCc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;UA
CN,UAAU,sBAAM,CAAN,C;UACV,kBA2GQ,WA3GU,W;U0G3GiB,UA2GQ,W;U0GiBjG,WAiFGZ,a0GvKgB,G
1GuKh
B,E0G7D+C,C,C;;Q0G9DA,OA0GF,W;O;KAvBI,C;qFA0BA,yB;MAAA,gB;MAAA,8B;M1G9H9HA,kE;QAlCc,Q;QA
AA,OACY,W;O;KAvBhB,C;qFA0BA,yB;MAAA,gB;MAAA,8B;MAAA,0E;QAlCc,Q;QAAA,OAAK,0B;QAAf,OAAU,c
AAV,C;UAAU,mB;UACN,UAAU,sBA2GQ,WA3GR,U,WAAY,GAAZ,C;UACV,kBA2GU,W;U0G3GU,WAAY,
GAAZ,C;U0GiGhD,kBAABA6B,U;U0GiGhD,UAABA6B,U;U0GiGjG,WAiFGZ,a0GvKgB,G1GuKhB,E0G7DG7D+C,C
,C;;Q0G9DA,OA0GF,W;O;KAvBI,C;qFA0BA,yB;MAAA,gB;MAAA,8B;M1G9H9HA,kE;QAlCc,Q;QAAA,OAAK,0b;M
AAA,gB;MAAA,8B;MAAA,0E;M1G9H9HA,kE;M1G9H;M1G9H;M1G9H;M1G9H

A,wE;M0G8HA,uC;QA3IW,kB1GqBiD,oB;Q0GM9C,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB;U
ACN,UAAU,sBAAM,CAAN,C;UACV,kBAAkB,sBAAY,GAAZ,C;UACC,oB;UAkIc,U;UAAjC,IAlIkD,uBAAuB,
CAAC,WAAY,mBAAY,GAAZ,CAkItF,C;YADA,mBAjI+C,C;;YAiI/C,mBACkB,UAlIW,GAkIX,EAAe,UAllC,
WAkID,6DAAf,EAllI6B,CAkI7B,C;;UAlIllB,W1GuKJ,a0GvKgB,G1GuKhB,mB;;Q0GvCA,OA9HO,W;O;KA2GX,
C;sFAwBA,yB;MAAA,gB;MAAA,8B;MAAA,oD;QAxIc,Q;QAAA,OAAK,0B;QAAf,OAAU,cAAV,C;UAAU,mB
;UACN,UAAU,sBAAM,CAAN,C;UACV,kBA6JQ,WA7JU,WAAY,GAAZ,C;UACC,oB;UA8Jc,U;UAAjC,IA9Jk
D,uBAAuB,CA4JjE,WA5J8E,mBAAY,GAAZ,CA8JtF,C;YADA,mBA7J+C,C;;YA6J/C,mBACkB,UA9JW,GA8JX
,EAAe,UA9JC,WA8JD,6DAAf,EA9J6B,CA8J7B,C;;UAFV,W1GWZ,a0GvKgB,G1GuKhB,mB;;Q0GXA,OAAY,
W;O;KAvBhB,C;IA6BA,6C;MArKc,Q;MAAA,OAAK,0B;MAAf,OAAU,cAAV,C;QAAU,mB;QACN,UAAU,sB
AAM,CAAN,C;QACV,kBA+KG,WA/Ke,WAAY,GAAZ,C;QA2GgE,U;QAoE/E,W1GPP,a0GvKgB,G1GuKhB,E0
GOmC,CA9KmB,uBAAuB,CA8KtE,WA9KmF,mBAAY,GAAZ,CA0GjC,GAoErC,CApEqC,GAA6B,UA1GhD,W
A0GgD,6DAoEnD,IAAM,CAAN,I1GPnC,C;;M0GOA,OAAO,W;K;IgEnP0B,oC;MAAC,kB;MAAuB,kB;K;;wCA
N7D,Y;MAMsC,iB;K;wCANtC,Y;MAM6D,iB;K;0CAN7D,wB;MAAA,wBAMsC,qCANtC,EAM6D,qCAN7D,C;
K;sCAAA,Y;MAAA,OAMsC,mDANtC,IAM6D,wCAN7D,O;K;sCAAA,Y;MAAA,c;MAMsC,sD;MAAuB,sD;MA
N7D,a;K;oCAAA,iB;MAAA,4IAMsC,sCANtC,IAM6D,sCAN7D,I;K;wFrKEA,yB;MAAA,kC;MAAA,4C;MAAA,
kD;QAMuF,wC;O;MANvF,4CAOI,Y;QAAuC,8B;O;MAP3C,8E;MAAA,2B;QAMuF,2C;O;KANvF,C;IAcsC,2C;
MAAC,wC;K;0CACnC,Y;MAAqD,4BAAiB,wBAAjB,C;K;;IAIzD,yC;MAI4D,OAAI,oCAAJ,GAA2B,SAAK,KA
AhC,GAA0C,I;K;IAEtG,uD;MAI0E,OAAI,oCAAJ,GAA2B,SAAK,KAAhC,GAA0C,S;K;IAGpH,8B;MAMoB,Q;
MADhB,aAAa,gB;MACG,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACL,OAAP,MAAO,EAAO,OAAP,C;;M
AEX,OAAO,M;K;IAGX,4B;MAUiB,Q;MAHb,mBAAmB,mCAAwB,EAAxB,C;MACnB,YAAY,iBAAa,YAAb,C;
MACZ,YAAY,iBAAa,YAAb,C;MACC,2B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,KAAM,WAAI,IAAK,MAAT,
C;QACN,KAAM,WAAI,IAAK,OAAT,C;;MAEV,OAAO,UAAS,KAAT,C;K;wFUxDX,qB;MAKqE,gB;K;IAErE,i
C;MAMoE,4BAAiB,SAAjB,C;K;uFAEpE,gC;MAKI,OAAgB,mBAAhB,C;QAAgB,8B;QAAM,UAAU,OAAV,C;;
K;IAMY,oC;MAAC,0B;MACnC,eAAoB,C;K;yCACpB,Y;MAAwC,OAAA,eAAS,U;K;sCACjD,Y;MAA6E,Q;MA
AhC,wBAAa,oBAAmB,mBAANb,EAAmB,2BAAnB,QAAb,EAA0C,eAAS,OAAnD,C;K;;sF4J5BjD,yB;MAAA,4
E;MAAA,gB;MAAA,8B;MAAA,+C;QAUiC,Q;QAA7B,OAA6B,wCAAqB,QAAS,aAA9B,0D;O;KAVjC,C;wFAY
A,yB;MAAA,4E;MAAA,gB;MAAA,8B;MAAA,+C;QAWiC,Q;QAA7B,OAA6B,wCAAqB,QAAS,aAA9B,0D;O;
KAXjC,C;sFAaA,+C;MAQI,SAAK,aAAI,QAAS,aAAb,EAAmB,KAAnB,C;K;ICnCT,8C;MAUI,IAAI,wCAAJ,C;
QACI,OAAO,SAAK,4BAAqB,GAArB,C;MAET,4B;M5KoTI,Q;MALX,YAAY,oB4K/Sa,G5K+Sb,C;MACZ,IAAI,
iBAAiB,CAAC,4B4KhThTG,G5KgTgTH,CAAtB,C;Q4KhTgC,OAAO,S;M5KkTpC,2BAAO,sE;;M4KjTP,OAAO,M;
K;IC5KoTlC,2BAAO,sE;;M4KpTX,+B;K;;M4KpTX,+B;K;;IAGJ,8C;MAUQ,kBADE,SACF,kB;QADJ,OACyC,YAAT,
SAAK,IAAI,EAAAY,YAAAz,C;;QADlC,OAEY,uBAAAmB,SAAAnB,EAAyB,YAAzB,YAAzB,C;K;IAGhB,gD;MAWQ,
kBADE,SACF,yB;QADJ,OACyC,cAAT,SAAK,IAAI,cAAAT,SAAK,IAAI,EAAAY,YAAAz,C;;QADlC,OAEY,8BAA0B,
SAA1B,EAAyB,YAAzB,YAAzB,C;K;;IAGhB,gD;MAWQ,kBADE,SACF,yB;QADJ,OACyC,cAAT,SAAK,IAAI,cAAAT,S
AAK,IAAI,EAAAY,YAAAz,C;;QADlC,OAEY,8BAA0B,SAA1B,EAAyB,YAAzB,YAAzB,C;K;;;;;;;;IAc0B,4C;MAAC,wB;M
AAoC,0B;K;qEAAApC,Y;MAAA,yB;K;0CACvC,iB;MAA4C,OAAI,OAAJ,QAAI,EAAAO,KAAP,C;K;4CAChD,Y;
MAA+B,OAAI,SAAJ,QAAI,C;K;4CACnC,Y;MAAAkc,OAAAA,QAAI,W;K;0FACf,Y;MAAQ,OAAAA,QAAI,K;K;;2
CACnC,Y;MAAAkc,OAAAA,QAAI,U;K;qDACtC,e;MAA4C,OAAA,QAAI,OAAJ,QAAI,mBAAY,GAAZ,C;K;uDAChD,
iB;MAAgE,OAAAA,QAAI,qBAAY,GAAZ,C;K;6CACpE,e;MAA+B,OAAA,QAAI,OAAJ,QAAI,WAAI,GAAJ,C;K;0
FACT,Y;MAAQ,OAAAA,QAAI,K;K;4FACH,Y;MAAQ,OAAAA,QAAI,O;K;oFACJ,Y;MAAQ,OAAAA,QAAI,Q;K;sD
AE5E,sB;MAAyC,OAAAA,QAAI,aAAI,GAAJ,EAAAS,GAAAJ,EAAAS,KAAT,C;K;uDAC7C,e;MAAkc,OAAA,QAAI,c
AAO,GAAAP,C;K;yDACtC,gB;MAA2C,QAAAA,QAAI,gBAAO,IAAAP,C;K;gDAC/C,/C;Y;MAAuB,QAAI,Q;
K;qEAE3B,e;MAAmD,gBAAAJ,Q;MAAI,4B;M5KuQvC,Q;MALX,YAAY,oB4KlQa,Oz5KkQb,C;MACZ,IAAI,
iBAAiB,CAAC,4B4KnQhTlOyD,Oz5KmQzD,CAAtB,C;Q4KnQgC,OAAO,S;M5KqQpC,2BAAO,sE;;M4KpQP,OAAO,
M;K;IC5KKnO+C,G5KpQX,CAAt

B,C;QACI,2B4KpOwE,mB;;Q5KuOxE,2BAAO,sE;;M4KvOoC,+B;K;;I5KvFnD,oB;MAAA,wB;MACI,8C;K;gCA
EA,iB;MAA4C,oCAAsB,KAAM,U;K;kCACxE,Y;MAA+B,Q;K;kCAC/B,Y;MAAkC,W;K;gFAEX,Y;MAAQ,Q;K
;iCAC/B,Y;MAAkC,W;K;2CAElC,e;MAA+C,Y;K;6CAC/C,iB;MAAsD,Y;K;mCACtD,e;MAAwC,W;K;mFACY,
Y;MAAQ,6B;K;gFAC/B,Y;MAAQ,6B;K;kFACI,Y;MAAQ,8B;K;uCAEjD,Y;MAAiC,6B;K;;;IAjBrC,gC;MAAA,+
B;QAAA,c;;MAAA,wB;K;IAoBA,oB;MAMuE,Q;MAA7B,OAA6B,uE;K;IAEvE,wB;MAaI,OAAI,KAAM,OAAN
,GAAa,CAAjB,GAA0B,QAAN,KAAM,EAAM,qBAAc,YAAY,KAAM,OAAlB,CAAd,CAAN,CAA1B,GAA6E,U;
K;kFAEjF,yB;MAAA,oD;MAAA,mB;QAO8C,iB;O;KAP9C,C;8FASA,yB;MAAA,wE;MAAA,mB;QAQ4D,2B;O;
KAR5D,C;IAUA,+B;MAYiD,gBAA7C,qBAAoB,YAAY,KAAM,OAAlB,CAApB,C;MAAqD,wB;MAArD,OUJO,
S;K;wFVMX,yB;MAAA,4D;MAAA,mB;QAOsD,qB;O;KAPtD,C;IASA,4B;MAM8G,gBAAvC,eAAc,YAAY,KA
AM,OAAlB,CAAd,C;MAA+C,wB;MAA/C,OUrB5D,S;K;4FVuBX,yB;MAAA,wE;MAAA,mB;QAK8D,2B;O;KA
L9D,C;IAOA,8B;MAU+E,OAAAM,QAAN,KAAM,EAAM,qBAAc,YAAY,KAAM,OAAlB,CAAd,CAAN,C;K;sFA
ErF,yB;MchBA,wE;MdgBA,gC;QcZiC,gBAAtB,oB;Qd8BiB,aU7DxB,W;QV6DA,OU5DO,SI8B2C,Q;O;KdYtD,C
;uFA0BA,yB;McnCA,uE;MdmCA,0C;Qc/ByC,gBAA9B,mBdqDiB,QcrDjB,C;QdqD2B,aU3FlC,W;QV2FA,OU1F
O,SIqCmD,Q;O;Kd+B9D,C;4FAoCA,qB;MAK+D,QAAC,mB;K;kGAEhE,qB;MAWI,OAAO,qBAAgB,mB;K;sFA
G3B,yB;MAAA,oD;MAAA,4B;QAM2D,uCAAQ,U;O;KANnE,C;sFAQA,mC;MASI,OAAI,mBAAJ,GAAe,cAAf,
GAAmC,S;K;yFAEvC,yB;MAyBA,kC;MAAA,8B;MAzzBA,iC;QAgCiC,Q;QAxB2E,OAAwBxD,CAAnB,wDAAmB
,oBAAxBoE,GAAwBpE,C;O;KAhCpD,C;+EAUA,yB;MAAA,kC;MAAA,8B;MAAA,iC;QAAKiC,Q;QAA7B,OAAg
D,CAAnB,wDAAmB,oBAAmB,YAAAI,GAAAZ,C;O;KALpD,C;+EAOA,iC;MAKI,sBAAI,GAAAJ,EAAS,KAAT,
C;K;4FAGJ,yB;MAAA,kC;MAAA,8B;MAAA,iC;QAOiC,Q;QAA7B,OAAgD,CAAnB,wDAAmB,oBAAAY,GAAAZ
,C;O;KAPpD,C;gGASA,4B;MASsG,OAAA,SAAK,qBAAc,KAAAd,C;K;kFAG3G,yB;MAAA,gD;MAAA,8B;MAA
A,iC;QASiC,Q;QAA7B,OAAuD,CAAnB,+DAAmB,oBAAA16,+DAA0B,eAAAOO,GAAAP,C;O;KAT3D,C;6FAWA
,qB;MAWoE,oB;K;6FAEpE,qB;MAWoE,sB;K;kFAEpE,yB;MAAA,6B;MAAA,4B;QAIgE,qBAAAK,aAAL,EAAAU,
eAAAV,C;O;KAJhE,C;2FAMA,wC;MAMiF,Q;MAAA,mCAAI,GAAAJ,oBAAAY,c;K;uGAG7F,yB;MAAA,gB;MAAA
,8B;MAAA,+C;QAAMe,Q;QAALX,YAAY,oBAAAI,iBAAiB,CAAAC,4BAAY,GAAAZ,C;QAACZ,IAAAiBAAiB,CAA
AC,4BAAtB,C;QUACI,OAAAO,c;;UAGP,OAAO,sE;;O;KANf,C;IAUA,oC;MAUkD,uCAAAqB,GAAArB,C;K;sFAE
lD,wC;MAUW,Q;MADP,YAAY,oBAAAIAAI,aAAAJ,C;MACL,IAAAI,aAAAJ,C;QACH,aAAAa,c;;QACb,sBAAAI,GA
AAJ,EAAAS,MAAT,C;QACA,a;;QAEA,Y;;MALJ,W;K;wFASJ,qB;MAMwF,OAAAAA,iBAAAQ,W;K;wFAEhG,qB;
MAMgH,OAAAAAA,iBAAAQ,W;K;4FAExH,6C;Maq1BoB,Q;MAAA,Obh1BT,iBag1BS,W;MAAhB,OAAgB,cAAhB,C
;QAAgB,yB;Qbh1Ba,Wai1Bb,aAAgB,Obj1Be,Iai1B/B,Ebj1BsC,Sai1BZ,CAAe,OAAf,CAA1B,C;;MbhxBhB,OAA6
B,W;K;wFAEhG,qB;MAMgH,OAAAPAAA,iBAAAQ,W;K;4FAExH,6C;MaqxBoB,Q;MAAA,Obr0BT,iBAaq0BS,W;M
AAhB,OAAgB,cAAhB,C;QAAgB,yB;Qbr0Ba,Was0Bb,abt0B0B,Sas0BtB,CAAY,OAAAZ,CAAJ,EAAAyC,Obt0BC,Mas0
B1C,C;;Mbt0BhB,OAA6B,W;K;IAGjC,kC;MAIyB,Q;MAAArB,wBAAAqB,KAAArB,gB;QAAAqB,aAAA,KAAArB,
M;QAAK,IAAC,yBAAAD,EAAAM,2B;QACP,sBAAAI,GAAAJ,EAAAS,KAAT,C;;K;IAIR,oC;MAIyB,Q;MAAAuB,uB;M
AAArB,OAAAqB,cAAArB,C;QAAAqB,wB;QAAAhB,IAAAiB,yBAAAD,EAAAM,2B;QACP,sBAAAI,GAAAJ,EAAAS,K
AAT,C;;K;IAIR,oC;MAIyB,Q;MAAAuB,uB;MAAArB,OAAAqB,cAAArB,C;QAAAqB,wB;QAAArB,wBAAAqB,KAAr
B,gBAAAC,c;QAAAD,IAAAN,yBAAAD,EAAAM,2B;QACP,sBAAAI,GAAAJ,EAAAS,KAAT,C;;K;wFAIR,yB;MAA
A,0D;MAAA,uE;MAAA,uC;QASW,kBAAAY,mBAAAoB,YAAAc,cAAAZ,CAApB,C;QA8BiB,aa8xBH,Q;QA9BA,
Obh1BT,iBag1BS,W;QAAhB,OAAAgB,cAAhB,C;QAAgB,yB;QUAAgB,yB;QbhxBa,Wai1Bb,aAAgB,Obj1Be,Iai1B/B,E
b/xB2C,Sa+xBjB,CAAe,OAAf,CAAAICAA1B,C;;Qb/xBhB,Ob/xBBhB,OAAlD6B,W;O;KATtD,C;oFAYA,yB;MAAA,0
D;MAAA,uE;MAAA,uC;QASW,kBAAAYW,mBAAAUU,YAAAc,cAAAZ,CAApB,C;QA8BiB,aa+wBD,Q;QA/BA,Obr0
BT,iBAaq0BS,W;QAAhB,OAAgB,cAAhB,C;QAAgB,yB;QUAhB,yB;Qbr0Ba,Wabhxbyc,SagxBrC,CAAY,OAAAZ,CA
AJ,EAAAyC,Obt0BC,Mas0B1C,C;;QbhxBhB,ObhxBBhB,OAAtD6B,W;O;KA0CjC,C;0FAEhE,6C;MAMOoB,Q;MA
AA,OAAA,SAAA,SA3HoE,QAAAQ,W;QA2F5F,OAAAc,cAAd,C;QAAAUcAhB,C;QUAAgB,yB;QUAAgB,yB;UAAAC
,IAAmC,SAAAdB,cAAAZA4fB,CAAU,OAAV;;QbhxBhB,ObhxBBhB,OAAtD6B,W;O;KAVjC,C;;MAGpB,OAAA,W;
K;qFAGX,yB;MAAA,wE;MAAA,uC;QAOW,kBAAAS,oB;QAAfA,Q;QAAA,OAAA,SA3HoE,iBAAAQ,W;QA2F2H
,OAAAgB,cAAhB,C;QAAgB,yB;QUAAgB,yB;QUAAZ,IAcmC,SAAdA/B,CAAAU,OAAAV,C;;

CAAJ,C;YACI,WAAY,aAAI,OAAQ,IAAZ,EAAiB,OAAQ,MAAzB,C;;;QAapB,OAVO,W;O;KAGX,C;+FAUA,6
C;MAOoB,Q;MAAA,OAAA,SApJoE,QAAQ,W;MAoJ5F,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,CAAC,UA
AU,OAAV,CAAL,C;UACI,WAAY,aAAI,OAAQ,IAAZ,EAAiB,OAAQ,MAAzB,C;;;MAGpB,OAAO,W;K;2FAG
X,yB;MAAA,wE;MAAA,uC;QAOW,kBAAY,oB;QAfH,Q;QAAA,OApJoE,iBAAQ,W;QAoJ5F,OAAgB,cAAhB,
C;UAAgB,yB;UUACZ,IAAI,CAckC,SAdjC,CAAU,OAAV,CAAL,C;YACI,WAAY,aAAI,OAAQ,IAAZ,EAAiB,OA
AQ,MAAzB,C;;;QAapB,OAVO,W;O;KAGX,C;IAUA,0B;MAQqB,IAAN,I;MADX,IAAI,oCAAJ,C;QACW,QAA
M,cAAN,C;eACH,C;YAAK,iB;YAAL,K;eACA,C;YAAK,aAAU,8BAAJ,GAAkB,sBAAK,CAAL,CAAlB,GAA+
B,oBAAW,OAAAhD,C;YAAL,K;;YACQ,0BAAM,qBAAoB,YAAY,cAAZ,CAApB,CAAN,C;YAHL,K;;QAAP,W;;
MAMJ,OAAoC,oBAA7B,mBAAM,oBAAN,CAA6B,C;K;IAGxC,yC;MAIwB,SAApB,WAAoB,Y;MAApB,kB;K;
IAEJ,4B;MAM6D,QAAM,gBAAN,C;aACzD,C;UADyD,OACpD,U;aACL,C;UAFyD,OAEpD,MAAM,UAAK,CA
AL,CAAN,C;;UAFoD,OAGjD,mBAAM,qBAAoB,YAAY,gBAAZ,CAApB,CAAN,C;;K;IAGZ,yC;MAIwB,OAAp
B,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAM4D,OAA6B,oBAA7B,mBAAM,oBAAN,CAA6B,C;K;IAEzF,yC;MAI
wB,SAApB,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAMqD,QAAM,cAAN,C;aACjD,C;UADiD,OAC5C,U;aACL,C
;UAFiD,OAE5C,MAAM,UAAK,CAAL,CAAN,C;;UAFiD,OAG9C,mBAAM,qBAAoB,YAAY,cAAZ,CAApB,CAAN,C
;K;IAGZ,iC;MAMmE,4BAAc,SAAd,C;K;IAEnE,yC;MAKI,WAAoB,0
B;MAApB,kB;K;IAEJ,kC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAAoB,MAAM,IAAN,C;;QAAqC,kB
AAApB,qBAAc,SAAd,C;QAA4B,wBAAAS,UAAT,EAAqB,WAArB,C;QAAjE,OUhiBO,W;;MVgiBP,W;K;IAEJ,mC
;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAA0B,MAAN,KAAM,C;;QAAiC,kBAAApB,qBAAc,SAAd,C;Q
AA4B,4B;QAAnE,OUziBO,W;;MVyiBP,W;K;IAEJ,mC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAA0B,
QAAN,KAAM,C;;QAAiC,kBAAApB,qBAAc,SAAd,C;QAA4B,0B;QAAnE,OUljBO,W;;MVkjBP,W;K;IAEJ,mC;M
AOwB,kBAAApB,qBAAc,SAAd,C;MAA4B,4B;MAAA5B,OAAA4C,oBU3jBrC,WV2jBqC,C;K;IAEhD,iC;MAOwB,k
BAAApB,qBAAc,SAAd,C;MAA4B,+B;MAAA5B,OUpkBO,W;K;0FVukBX,2B;MAKI,sBAAI,IAAK,MAAT,EAAg
B,IAAK,OAArB,C;K;4FAGJ,yB;MAAA,gD;MAAA,mC;QAKI,kBAAO,KAAP,C;O;KALJ,C;4FAQA,yB;MAAA,
gD;MAAA,mC;QAKI,kBAAO,KAAP,C;O;KALJ,C;4FAQA,yB;MAAA,gD;MAAA,mC;QAKI,kBAAO,KAAP,C;
O;KALJ,C;4FAQA,0B;MAKI,yBAAO,GAAP,C;K;IAGJ,kC;MAOwB,kBAAf,aAAL,SAAK,C;MAsCL,6B;MAtC
A,OAA+C,oBUtnBxC,WVsnBwC,C;C;K;IAEnD,mC;MAOwB,kBAAf,aAAL,SAAK,C;MAqCK,YAAL,gBAAK,O;
MArCV,OAAgD,oBUUhoBzC,WVgoByC,C;C;K;IAEpD,mC;MAOwB,kBAAf,aAAL,SAAK,C;MAoCK,YAAL,gBA
AK,O;MApCV,OAAgD,oBU1oBzC,WV0oByC,C;C;K;IAEpD,mC;MAOwB,kBAAf,aAAL,SAAK,C;MAmCK,YAA
L,gBAAK,O;MAnCV,OAAgD,oBUppBzC,WVopByC,C;C;K;4FAEpD,0B;MAMI,uBAAO,GAAP,C;K;8FAGJ,yB;
MAAA,sD;MAAA,kC;QAMc,UAAV,SAAK,KAAK,EAAAU,IAAV,C;O;KANd,C;8FASA,yB;MAAA,sD;MAAA,k
C;QAMc,UAAV,SAAK,KAAK,EAAAU,IAAV,C;O;KANd,C;8FASA,yB;MAAA,sD;MAAA,kC;QAMc,UAAV,SAA
K,KAAK,EAAAU,IAAV,C;O;KANd,C;IAUA,wC;MACsD,QAAM,cAAN,C;aAClD,C;UADkD,OAC7C,UAADkD,
OAAC7C,U;aAACL,C;UAFkD,OAE7C,gB;K;;UAAAA,OAG1C,oF6KtwBZ,yB;MAAA,8D;MAAA,8B;MAAA,qc
;QAUiC,Q;QAAA,IAAA,7B;QAAA,OAA2,CAAA,9B;sEAA8,eAAO,OAAAP,C;O;KAV/D,C;wFAAA,yB;MAAA
,8D;MAAA,8B;MAAA,oBAAU,QAAV,C;O;KAT/D,C;4FAAA,8B;MAKI,SAAK,WAAAI,OAAAJ,C;K;4FAGT,
yB;MAAA,gD;MAAA,sC;QAKS,OAAAL,OAAAM,C;O;KALT,C;4FAQA,yB;MAAA,gD;MAAA,sC;QAKS,OAAA
L,OAAAM,C;O;KALT,C;8FAQA,8B;MAKI,SAAK,cAAAO,OAAAP,C;K;8FAGT,yB;MAAA,sD;MAAA,sC;QAKI
,UAAU,QAAV,C;O;KALT,C;8FAQA,yB;MAAA,sD;MAAA,sC;QAKI,UAAU,QAAV,C;O;KALT,C;8FAQA,yB
;MAAA,sD;MAAA,sC;QAKI,UAAU,QAAV,C;O;KALT,C;IA
QA,qC;MAIU,IAIe,I;MAHjB,kBADE,QACF,c;QAAiB,OAAO,yBAAO,QAAP,C;;QAEpB,aAAsB,K;QACT,0B
;Q
AAb,OAAa,cAAb,C;UAAa,sB;UACT,IAAI,oBAAI,IAAJ,CAAJ,C;YAAe,SAAS,I;;QAC5B,OAAO,M;;K;IAKnB,
uC;MAKiB,Q;MADb,aAAsB,K;MACT,0B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,IAAI,oBAAI,IAAJ,CAAJ,C;
UAAe,SAAS,I;;MAE5B,OAAO,M;K;IAGX,uC;MAII,OAAO,yBAAgB,OAAT,QAAS,CAAhB,C;K;IAGX,0C;MA
IW,iBAAmB,gCAAT,QAAS,EAAgC,SAAhC,C;MAkH7B,OAAlH2D,CAAA9B,sEAA8B,oBAAAU,UAAV,
C;K;IAqH/D,0C;MAII,UAAmB,8BAAT,QAAS,C;MACnB,O9K0EwD,C8K1EjD,G9K0EkD,U8K1ElD,IAAoB,4B
AAU,GAAV,C;K;IAG/B,0C;MAII,OpLqoBPO,EoLroBPA,QpL6jPA,YAAQ,CAwER,CoLroBPA,IAAyB,4BAAmB,8B
AAT,QAAS,CAAnB,C;K;IAGpC,0C;MAIW,iBAAmB,gCAAT,QAAS,EAAgC,SAAhC,C;MA7HG,Q;MA6H7B,O

A7H2D,CAA9B,sEAA8B,oBAAU,UAAV,C;K;IAgI/D,0C;MAII,IpLunPO,EoLvnPH,QpL+iPG,YAAQ,CAwER,C
oLvnPP,C;QACI,OAAO,4BAAmB,8BAAT,QAAS,CAAnB,C;;QAEP,OAAO,wB;K;IAGf,0C;MAII,UAAmB,8BA
AT,QAAS,C;MACnB,I9K0CwD,C8K1CpD,G9K0CqD,U8K1CzD,C;QACI,OAAO,4BAAU,GAAV,C;;QAEP,OA
AO,wB;K;IAGf,kC;MACI,a9KmCwD,CAAAC,mB;M8KlCzD,iB;MACA,OAAO,M;K;IAIX,2C;MAKkF,gCAAc,S
AAd,EAAyB,IAAzB,C;K;IAElF,2C;MAKkF,gCAAc,SAAd,EAAyB,KAAzB,C;K;IAElF,sE;MACI,iBAAAa,KAAb,
C;MnKlJgB,kBmKmJX,oB;MACD,OAAO,qBAAP,C;QACI,IAAI,UAAU,kBAAV,6BAAJ,C;UACI,oB;UACA,W
AAS,I;;MAGrB,OAAO,Q;K;oFAIX,4B;MAM6D,kCAAS,KAAT,C;K;IAE7D,gC;MAKiD,IAAI,mBAAJ,C;QAAe,
MAAM,2BAAuB,gBAAvB,C;;QAArB,OAAmE,2BAAS,CAAT,C;K;IAEpH,sC;MAKwD,OAAAI,mBAAJ,GAAe,I
AAf,GAAyB,2BAAS,CAAT,C;K;IAEjF,+B;MAKgD,IAAI,mBAAJ,C;QAAe,MAAM,2BAAuB,gBAAvB,C;;QAA
rB,OAAmE,2BAAS,2BAAT,C;K;IAEnH,qC;MAKuD,OAAAI,mBAAJ,GAAe,IAAf,GAAyB,2BAAS,2BAAT,C;K;I
AEhF,2C;MAK8E,kCAAc,SAAd,EAAyB,IAAzB,C;K;IAE9E,2C;MAK8E,kCAAc,SAAd,EAAyB,KAAzB,C;K;IA
E9E,wE;MAEgB,UAGS,MAHT,EAcY,MAdZ,EAc6B,M;MAfzC,IAAI,uCAAJ,C;QACI,OAAoC,cAA5B,sEAA4B,
EAAc,SAAd,EAAyB,uBAAzB,C;MAExC,iBAAsB,C;MACD,oC;MAArB,qBAAkB,CAAlB,mC;QACI,cAAc,sBA
AK,SAAL,C;QACd,IAAI,UAAU,OAAV,MAAsB,uBAA1B,C;UACI,Q;QAEJ,IAAI,eAAAc,SAAlB,C;UACI,sBAA
K,UAAL,EAAmB,OAAnB,C;QAEJ,+B;;MAEJ,IAAI,aAAAa,cAAjB,C;QACwB,oC;QAAiB,mB;QAAArC,oE;UAC
I,2BAAS,WAAT,C;;MAEJ,OAAO,I;;;MAEJ,IAAI,aAAAa,aAAa,cAAAjB,C;;MAEJ,IAAI,+B;QAAe,MAAM,2BAAu
B,gBAAvB,C;;QAArB,OAAmE,2BAAS,CAAT,C;K;;MAEJ,IAAI,aAAAa,oBAAiB,KAAjB,2BAA2C,gBAAG,cAAH,C
AA3C,OAA1B,C;K;IAGlD,+B;MAK+C,gCAAqB,SAArB,C;K;IAE/C,iC;MAM6D,wBAAa,SAAb,C;K;;;;IxKpC7D,
oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;IyKY8G,wC;MAAA,mB;QAAE,kBAAS,aAAT,C;O;K;IAThH,yB;MASqG,oCAAS,sBA
AT,C;K;;8FAErG,yB;MAAA,kD;MzKdA,kC;MAAA,0C;MAAA,kD;QAQuF,wC;K;IARvF,4CASI,Y;QAAuC,8B;
O;MAT3C,8E;MyKiBI,MyKiB2I,qD;QAAA,mB;QAAE,gBAAS,qBAAT,C;S;O;MAAArC,oE;QAC1B,OAAO,iBAA
S,cAAT,C;O;K;IAHlI,C;IAKA,2B;MAQI,eAAAe,6B;MAAA,+BAAN,KAAM,EAAA+BAAN,KAAM,EAAwC,QAAAxC,
EAA+D,QAAA/D,C;MAC
1B,OAAO,Q;K;K;8FAGX,yB;MAAA,kD;MAAA,gC;QAGkI,gBAAAS,aAAT,C;O;K;IAHlI,C;IAgB0C,yB;MAAE,kBA
AAo0B,QAAS,WAAAlB,e;K;;+CAGX,kC;MAQI,uCAA0B,QAAS,WAAvC,C;QAAAkD,M;MAClD,OAAO,sBAAS,
QAAS,WAAlB,e;K;+CAGX,kC;MAQqD,6BAAAsB,e;K;;;;;;;;;;IAezD,mC;MAA2C,wB;MACvC,eAAoB,C;MACpB,
mBAA4B,I;MAC
5B,sBAAyC,I;MACzC,gBAAoC,I;K;;gDAEpC,Y;MACI,OAAO,IAAP,C;QACI,QAAM,YAAN,C;eACI,C;YAAA,
K;eACA,C;YACI,IAAI,kCAAe,UAAnB,C;;cACI,eAAAQ,C;ccACR,OAAO,I;;ceACP,sBAAAe,I;;;;YALvB,K;eAOA,
O;YAAA,Y;;;;;IAYL,vB;K;;kC;;;QAGlB,eAAAQ,C;;;QAGlB,iBAAAxC,IzH/FR,oBDgDQ,W0H+CY,kB1H/CZ,CCh
DR,C;;K;6CyHmGA,Y;MACU,IASe,I;MATrB,QAAM,YAAN,C;aACI,C;YAAA,K;aAEA,C;YAAA,K;a/H/FR,oBDgD
Q,W0H+CY,kB1H/CZ,C;;K;6CyHmGA,Y;MACU,IASe,I;MATrB,QAAM,YAAN,C;aACI,C;aAAA,K;aAEA,C;aAAA,K;aAAsc,OA
AO,qB;aAC7C,C;aAAA,K;aACR,OAAO,kCAAe,O;aAAE1e;a3CyHmGA,Y;MAAA,K;aA/H/FR,oBDgDQ,W0H+CY,
kB1H/CZ,C;;K;6CyHmGA,Y;MACU,IASe,I;MATrB,QAAM,YAAN,C;aAAAK;aAAAs5C,OAAO,qB;aACR,OAAO,kCA
Ae,O;aAAE;a6CyHmGA,Y;MAAA,K;aAAAp1C;a3CkGAIR,Y;MAAA,K;aAAEnd;a;;MACI,mBAAAY,K;MACA,IAAI,kCA
Ae,cAAL,C;QAAgB,MAAM,6B;;;K;;2DAEpC,Y;MACI,OAAO,IAAP,C;QACI,QAAM,YAAN,C;aACI,C;YAAA,K;a2DAG
IR,Y;MAAA,K;aA/H/FR,oBDgDQ,W0H+CY,kB1H/CZ,C;;;;K;;;;;;;;;IAezD,mC;MAA2C,wB;MACvC,eAAAQ,C;MAC
A,IAAI,kCAAe,cAAL,C;QAAgB,M;;;K;;kGAIR,Y;MAAQ,OC;IAiBgE,8B;K;;;;;;;;;;IAEzE,8B;MAK6D,MAAK,6B;K;IAE
lE,8B;MAQI,wBAAAQ,e;Q2DAGIR,Y;MAAA,K;aAAAp1C;a3CkGAIR,Y;MAAA,K;;MACI,mBAAAoB;MAAA,eAAn
B;MACI;;;MACA,IAAI,kCAAe,cAAL,C;QAAgB,MAAM,6B;;;K;2DAEpC,iB;M1HjGR,oBDgDQ,W0H+CY,kB1H/
CZ,C;;K;;;;;;;;IAezD,mC;MAA2C,wB;MACvC,eAAAQ,C;MACA,IAAI,kCAAe,cAAL,C;QAAgB,M;;;K;;kGAIR,Y;MA
AQ,OC;IAiBgE,8B;K;;2DAAgIR,Y;MAAA,K;;;MACI,mBAAAoB;MAAA,eAAnB;;;K;;kGAIR,Y;MAAQ,O;;;;;;IA
ezD,mC;MAA2C,wB;MACvc;;;;;;;;kC;M1HjBO,Q;M0HMDP,e0HdBI,M1HcJ,C;MAACO,Q0HHmBH,M1HGnB
G,C;;D;M0HHoBH,eAAQ,C;K;;kGAIR,Y;MAAQ,OC;K;;IzK1LhB,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;
K;IAT3C,gF;IyKY8G,wC;MAAA,mB;QAAE,kBAAS,aAAT,C;O;K;IAThH,yB;MASqG,oCAAS,sBAAT,C;K;;8FAErG,
yB;MAAA,kD;MzKdA,kC;MAAA,0C;MAAA,kD;QAQuF,wC;K;IARvF,4CASI,Y;QAAuC,8B;O;MAT3C,8E;MAAA,2
B;MyKMDP,e0HdBI,M1HcJ,C;MAACO,Q0HHmBH,6CAAt
C,c;K;;2DAMX,kB;M1HjBO,Q;M0HMDP,e0HdBI,M1HcJ,C;MAACO,Q0HHmBH,M1HGnBG,C;;D;M0HHoB
H,eAAQ,C;K;;kGAIR,Y;MAAQ,OC;K;;;;;IzK1LhB,oD;MAQuF,wC;K;;;Iz;K1LhB;K;IzK1LhB;M8FAGIR,yB;MAA
AA,kD;M1HjBO;;;;;IAezE,8B;MAK6D,MAAK,6B;K;IAEzE,8B;MAK6D,MAAAA,2B;MyKMDP,e0HdBI,M1HcJ,
C;K;;;IzK1LhB;M8FAGIR,IAiBgE,+C;K;IAiBgE,+C;K;IAiBBgE,+C;;IAAA,mB;M8FAGIR,Y;;;IsFAAAyB;M;MAAA
AA,kC;K;;;;;;;;;IAezE,8B;MAK6D,MAAK,6B;K;;kGAIR,Y;MAAQ,OC;K;;Iz;K1LhB;M8FAGIR,yB;MAAAA,kD;M
1HjBO;MAAA,2B;M0HMDP,e0HdBI,M1HcJ,C;MAACO,Q0HHmBH,6CAAt
C,c;K;2DAMX,kB;M1HjBO,Q;M0HMDP,e0HdBI,M1HcJ,C;MAACO,Q0HHmBH,M1HGnBG,+D;M0HnBH,e
AAQ,C;K;;kGAIR,Y;MAAQ,OC;K;;IzK1LhB,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;IyKY8G,2
B;MAAAA,kC;M0HdBI,M1HcJ,C;;IyKMDP,eAAQ,sB;K;IALlE,kC;MAKuD,OAAAA,mBAAJ,GAAe,IAAf,GAAyB,2B
AAS,2BAAT,+BAAS,E;K;IAEzE,8B;MAK6D,MAK6D,MAAAA,2B;MyKMDP,e0HdBI,M1HcJ,C;K;;kGAIR,Y;MA
AQ,OC;K;;;;;IAezE,8B;MAK6D,MAAK,6B;K;IAEnH,yB;MAG8C,kC;K;IAiBiBgE,+C;;IAAAkC,kB;M;M1HjBO,Q;M
0HMDP,e0HdBI,M1HcJ,C;MAACO,Q0HHmBH,6CAAt
C,c;K;2DAMX,kB;M1HjBO;;;;;;;;;;IAezE,8B;MAK6D,MAAK,6B;K;IAEzE,8B;MAAAA,2DAMX,kB;M1HjBO,Q;M
0HMDP,e0HHoBI,Qb2rPtD,YAAQ,Ca3rP0C,GAAwB,eAAxB,GAAsD,WAAT,QAAS,C;K;IAEnH,yB;MAG8C,kC

;K;IAE9C,yB;MAAA,6B;K;uCACI,Y;MAA6C,kC;K;2CAC7C,a;MAA4B,kC;K;2CAC5B,a;MAA4B,kC;K;;;IAHh
C,qC;MAAA,oC;QAAA,mB;;MAAA,6B;K;oFAMA,yB;MAAA,2D;MAAA,4B;QAM4D,uCAAQ,e;O;KANpE,C;I
AgB4F,mH;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wD;MAAA,kC;K;;;;kDAAA,Y;;;;;cACxF,eA
Ae,uBAAa,W;cAC5B,IAAI,QAAS,UAAb,C;gBACI,gB;gCAAA,sCAAS,QAAT,O;oBAAA,2C;yBAAA,yB;gBAA
A,Q;;gBAEA,gB;gCAAA,sCAAS,iCAAT,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;;;;;cAJJ,W;;cAAA,W;;;;;;;;;;;;;;
K;IADwF,gE;MAAA,yD;uBAAA,uG;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAP5F,4C;MAOmF,gBAAS,uCAAT,
C;K;IAgBb,4B;MAAE,OAAA,EAAG,W;K;IAP3E,8B;MAO8D,4BAAQ,cAAR,C;K;IAUQ,8B;MAAE,OAAA,EA
AG,W;K;IAR3E,8B;MAQ8D,4BAAQ,gBAAR,C;K;IAM1B,8B;MAAE,S;K;IAJtC,wC;MAEgB,Q;MADZ,IAAI,8
CAAJ,C;QACI,OAA4C,CAApC,2EAAoC,kBAAQ,QAAR,C;;MAEhD,OAAO,uBAAmB,SAAnB,EAAyB,gBAAz
B,EAAiC,QAAjC,C;K;IAGX,4B;MAYiB,Q;MAFb,YAAY,gB;MACZ,YAAY,gB;MACC,2B;MAAb,OAAa,cAAb,
C;QAAa,sB;QACT,KAAM,WAAI,IAAK,MAAT,C;QACN,KAAM,WAAI,IAAK,OAAT,C;;MAEV,OAAO,UAAS
,KAAT,C;K;IAGX,+B;MAQqD,6BAAS,4BAAT,C;K;IAW0B,+G;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,0C;
MAAA,4C;MAAA,0B;MAAA,kC;K;;;;mDAAA,Y;;;;;kCAC9D,0C;cACb,gB;;;;;cAAA,IAAO,iBPyFkD,UOzFzD,
C;gBAAA,gB;;;;cACI,QAAQ,yBAAO,iBAAQ,iBAAO,KAAf,C;cACf,WAAkB,WAAP,iBAAO,C;cAClB,YAAgB,
IAAI,iBAAO,KAAf,GAAqB,iBAAO,aAAI,CAAJ,EAAO,IAAP,CAA5B,GAA8C,I;cAC1D,gB;8BAAA,iCAAM,K
AAN,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cAJJ,gB;;;cAMJ,W;;;;;;;;;;;;;K;IAR+E,4D;MAAA,yD;uBAAA,mG;Y
AAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAT/E,uC;MASmE,gBAAY,kCAAZ,C;K;IAkBhC,0D;MAE/B,wB;QAAA,WA
AgC,I;MADhC,0B;MACA,0B;K;IAGuC,0E;MAAA,oD;MACnC,gBAAe,iCAAS,W;MACxB,iBAAAqB,
E;MACrB,gBAAAmB,I;K;oEAAEnB,Y;MACI,OAAO,aAAS,UAAhB,C;QACI,WAAAW,aAAS,O;QACpB,IAAI,wCA
AU,IAAAV,MAAmB,sCAAvB,C;UACI,gBAAAW,I;UACX,iBAAAY,C;UACZ,M;;;MAGR,iBAAAY,C;K;IR+E,4
D;MAAA,yD;uBAAA,mG;YAAA,S;iBAAA,Q;;iBAAA,uB;O;K;IAR+E,4D;MAAA,yD;uBAAA,mG;YAAA,S;iBA
AA,Q;;iBAAA,uB;O;K;IAT+E,uC;MASmE,gBAAY,kCAAZ,C;K;IAkBhC,0D;MAE/B,wB;QAAA,WAAgC,I;MADhC,0
B;MACA,0B;K;IAGuC,0E;MAAA,oD;MACnC,gBAAe,iCAAS,W;MACxB,iBAAAqB,E;MACrB,gBAAAmB,I;K;oE
AAEnB,Y;MACI,OAAO,aAAS,UAAhB,C;QACI,WAAAW,aAAS,O;QACpB,IAAI,wCAAU,IAAAV,MAAmB,sCAA
vB,C;UACI,gBAAAW,I;UACX,iBAAAY,C;UACZ,M;;;MAGR,iBAAAY,C;K;;2CAhC5B,Y;MAAuC,yD;K;;IA2
C3C,qD;MAAY,0B;MAAmC,gC;K;IACJ,gF;MAA
A,0D;MACnC,gBAAe,oCAAS,W;K;iEACxB,Y;MACI,OAAO,6CAAY,aAAS,OAAArB,C;K;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

Aa,CAAb,IAAtB,EAAsC,eAAtC,C;K;yCAC9E,a;MAAyC,OAAI,KAAK,YAAT,GAAgB,IAAhB,GAA0B,gBAAY
,eAAZ,EAAsB,iBAAtB,EAAkC,oBAAa,CAAb,IAAlC,C;K;IAEzC,8D;MAAA,wC;MAEtB,gBAAe,2BAAS,W;M
ACxB,gBAAe,C;K;0DAEf,Y;MAEI,OAAO,gBAAW,kCAAX,IAAyB,aAAS,UAAzC,C;QACI,aAAS,O;QACT,qC;
;K;2DAIR,Y;MACI,a;MACA,OAAQ,gBAAW,gCAAZ,IAAyB,aAAS,U;K;wDAG7C,Y;MACI,a;MACA,IAAI,iBA
AY,gCAAhB,C;QACI,MAAM,6B;MACV,qC;MACA,OAAO,aAAS,O;K;;qCAvBxB,Y;MAA0B,mD;K;;IAgCA,u
C;MAC1B,0B;MACA,oB;MC3WA,IAAI,ED+WQ,gBAAS,CC/WjB,CAAJ,C;QACI,cD8WsB,yCAAsC,YAAtC,M
;QC7WtB,MAAM,gCAAyB,OAAQ,WAAjC,C;;K;0CDgXV,a;MAAyC,OAAI,KAAK,YAAT,GAAgB,eAAhB,GA
AqC,gBAAY,eAAZ,EAAsB,CAAtB,EAAyB,YAAzB,C;K;0CAC9E,a;MAAyC,OAAI,KAAK,YAAT,GAAgB,IAA
hB,GAA0B,iBAAa,eAAb,EAAuB,CAAvB,C;K;IAE5B,gE;MACnC,YAAW,yB;MACX,gBAAe,4BAAS,W;K;yDA
ExB,Y;MACI,IAAI,cAAQ,CAAZ,C;QACI,MAAM,6B;MACA,OAAO,aAAS,O;K;4DAGpB,Y;MACI,
OAAO,YAAO,CAAAP,IAAY,aAAS,U;K;;sCAZpC,Y;MAAuC,oD;K;;IAsB3C,gD;MACI,0B;MACA,4B;K;IAEuC,
0E;MAAA,oD;MACnC,gBAAe,iCAAS,W;MACxB,iBAAqB,E;MACrB,gBAAmB,I;K;oEAEnB,Y;MACI,IAAI,aA
AS,UAAb,C;QACI,WAAW,aAAS,O;QACpB,IAAI,wCAAU,IAAV,CAAJ,C;UACI,iBAAY,C;UACZ,gBAAW,I;U
ACX,M;;;MAGR,iBAAY,C;K;8DAGhB,Y;MAMiB,Q;MALb,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,IAAI,mB
AAa,CAAjB,C;QACI,MAAM,6B;MACV,aACa,gF;MAGb,gBAAW,I;MACX,iBAAY,E;MACZ,OAAO,M;K;iEA
GX,Y;MACI,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,OAAO,mBAAa,C;K;;2CAlC5B,Y;MAAuC,yD;K;;IA2Cb,u
C;MAC1B,0B;MACA,oB;MC5bA,IAAI,ED+bQ,gBAAS,CC/bjB,CAAJ,C;QACI,cD8bsB,yCAAsC,YAAtC,M;M;QC
7btB,MAAM,gCAAyB,OAAQ,WAAjC,C;;K;0CDgcV,a;MItXO,SJsXmC,eAAQ,CAAR,I;MAAD,OAA4B,KAAK,
CAAT,GAAAY,yBAAZ,GAAuC,iBAAa,eAAb,EAAuB,EAAvB,C;K;0CACxG,a;MIvXO,SJuXmC,eAAQ,CAAR,I;
MAAD,OAA4B,KAAK,CAAT,GAAAY,gBAAY,eAAZ,EAAsB,YAAtB,EAAoB,6B;QAAY,eAAZ,EAAsB,YAAtB,EAA6B,EAA7B,C;K;IA
EjE,gE;MACnC,4BAAS,W;MACxB,YAAW,yB;K;2DAEX,Y;MAEI,OAAO,YAAO,CAAAP,IAAY,aAAS,
UAA5B,C;QACI,aAAS,O;QACT,6B;;K;yDAIR,Y;MACI,a;MACA,OAAO,aAAS,O;K;4DAGpB,Y;MACI,a;MAC
A,OAAO,aAAS,U;K;;sCAnBxB,Y;MAAuC,oD;K;;IA6B3C,gD;MACI,0B;MACA,4B;K;IAGuC,0E;MAAA,oD;M
ACnC,gBAAe,iCAAS,W;MACxB,iBAAqB,E;MACrB,gBAAmB,I;K;gEAEnB,Y;MACI,OAAO,aAAS,UAAhB,C;
QACI,WAAW,aAAS,O;QACpB,IAAI,CAAAC,wCAAU,IAAV,CAAL,C;UACI,gBAAW,I;UACX,iBAAY,C;UACZ
,M;;;MAGR,iBAAY,C;K;8DAGhB,Y;MAMqB,Q;MALjB,IAAI,mBAAa,EAAjB,C;QACI,a;MAEJ,IAAI,mBAAa,
CAAjB,C;QACI,aACa,gF;QACb,gBAAW,I;QQACX,iBAAY,C;QQACZ,OAAO,M;K;;MAEX,OAAO,aAAS,O;K;iEAG
pB,Y;MACI,IAAI,mBAAa,EAAjB,C;QACI,a;MACJ,OAAO,mBAAa,CAAb,IAAkB,aAAS,U;K;;2CAlC1C,Y;MA
AuC,yD;K;;IAuCN,+C;MAAC,sB;MAAiC,gC;K;;0CACnE,Y;MAAuC,4BAAiB,aAAO,WAAxB,EAAoC,kBAApC
,C;K;;IAGP,+C;MAAuE,2B;MAAAtE,sB;MAAiC,gC;MAClE,kBAAuB,c;K;6CAEvB,Y;MACI,OAAO,aAAO,aAAO,UAA
d,C;QACI,WAAW,aAAO,O;QQACpB,UAAmB,mBAAAY,IAAZ,C;QQACnB,mBAAQ,IAAR,C;QQACA,M;;;MAIR,W;K;;IAIC,eAAS,WAAI,GAAJ,CAAb,C;UACI,
mBAAQ,IAAR,C;QQACA,M;;;K;;MAAR,W;K;;IAAC,eAAiB,aAAO,WAAxB,C;QACI,aAAiB,eAAiB,c;K;;IAKgB,0D;MAAC,wC;MAAuC,gc;K;;IAXKgC,0D;MAAC,wC;MAAuC,gc;K;;IAGP,+C;MAAuE,2B;MAAuC,kc;K;;IACrC,0E;MAAC,sB;MAAiC,gc;K;;IACrC,0E;MAAC,sB;MACf,gBAAm,I;K;MACnB,iBAAqB,E;K;oEAErB,Y;MACI,OAAO,aAAO,UAAd,C;QACI,gBAAAe,IAAQ,mBAAa,EAAzB,C;QQACA,M;;;MAAR,W;K;;IAIb,gD;MAMiB,Q;MALb,IAAI,iBAAAY,IAAQ,mBAAa,EAAzB,C;QQACI,aACiB,eAAiB,c;K;;IXXB,uD;MAAC,wC;MACf,kBAAe,mBAAAY,IAAQ,GAAR,C;K;4CAEX,Y;MAAuC,kBAAiB,aAAO,WAAxB,C;K;;IAelB,gD;MAMqB,Q;MALjB,IAAI,iBAAAY,IAAQ,mBAAa,EAAzB,C;QQACI,aQACe,eAAiB,c;K;;IAIlB,uD;MAAC,wC;MACf,kBAAe,mBAAAY,IAAQ,GAAR,C;K;4CAEX,Y;MAAuC,kBAAiB,aAAO,WAAxB,C;K;;IAedB,oD;MQACmB,Q;MQAnB,IAAI,iBAAAY,IAAQ,mBAAa,EAAzB,C;QACI,aAAR,C;YAAA,gBAAAU,CAAN,+C;MAAAC,sB;MAAAiC,gc;K;K;;IAGP,+C;MAAuE,2B;MAAtE,sB;MAAAiC,gc;K;K;;IAArC,Y;MAAuC,yD;K;;IIAdrC,gc;MAAAA,+B;QAAAA,c;;MAAAA,wB;K;;IAkBA,oB;MQAA,IAAoC,MAIoC,QAAAU,CAAN,+B;QQAAA,c;;;;MAAAA,wB;K;;IAAC,2D;MAAAMmD,OAAAI,QAAAS,OAAAT,GAAAgB,CAApB,GAAgC,GAAhB,MAAAT,QAAAS,CAAAhC,GAAAY,6C;K;iFAEhG,yB
;MAAA,mD;MAAA,mB;QAAKwC,iB;O;;IAAA,sD;MAALxC,C;6FAEhG,yB
;MAAoC,MIoC,QAAAU,CAAN,+B;QQAAA,c;;;;MAAAA,wB;K;;IAkBA,oB;MQAA,IAAoC,MIoC,QAAAU,CAAN,+B;QQAAA,c;;;;MAAAA,wB;K;;IAAC,2D;MAAAMmD,OAAAI,QAAAS,OAAAT,GAAAgB,C

AAS,aAAT,QAAS,EAAa,qBAAc,YAAY,QAAS,OAArB,CAAd,CAAb,C;K;IAE5E,+B;MAMyD,OAAI,eAAJ,GA
AqB,MAAM,OAAN,CAArB,GAAyC,U;K;IAElG,kC;MAQI,OAAgB,gBAAT,QAAS,EAAgB,sBAAhB,C;K;sFAG
pB,yB;MavBA,uE;MbuBA,gC;QanB8B,gBAAnB,oB;QbqCiB,aS/CxB,W;QT+CA,OS9CO,SISwC,Q;O;KbmBnD,
C;wFA0BA,yB;Ma1CA,wE;Mb0CA,0C;QatCsC,gBAA3B,mBb4DiB,Qa5DjB,C;Qb4D2B,aS7ElC,W;QT6EA,OS5
EO,SIgBgD,Q;O;KbsC3D,C;sFA+BA,yB;MAAA,mD;MAAA,4B;QAEkD,uCAAQ,U;O;KAF1D,C;IAIA,wC;MA
AgD,QAAM,cAAN,C;aAC5C,C;UAD4C,OACvC,U;aACL,C;UAF4C,OAEvC,MAAM,oBAAW,OAAjB,C;;UAFu
C,OAGpC,S;;K;IKnKZ,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;I0KLA,yC;MzK4BI,IAAI,E
yK3BI,OAAO,CAAP,IAAY,OAAO,CzK2BvB,CAAJ,C;QACI,cyK3BI,aAAJ,GACI,yEADJ,GAGI,8C;QzKyBJ,M
AAM,gCAAyB,OAAQ,WAAjC,C;;K;IyKnBM,mI;MAAA,mB;QAAE,wBAAiB,gCAAjB,EAA6B,YAA7B,EAAm
C,YAAnC,EAAyC,sBAAzC,EAAyD,mBAAzD,C;O;K;IAFtB,gF;MACI,oBAAoB,IAApB,EAA0B,IAA1B,C;MAC
A,oCAAgB,6EAAhB,C;K;IAKyB,yL;MAAA,wC;MAAA,6B;MAAA,yB;MAAA,wC;MAAA,wC;MAAA,gD;MA
AA,sD;MAAA,4D;MAAA,wB;MAAA,0B;MAAA,uB;MAAA,0B;MAAA,wB;MAAA,qB;MAAA,4B;MAAA,kC;
K;;;;2DAAA,Y;;;;;cACrB,4BAAiC,eAAL,uBAAK,EAAa,IAAb,C;+BACvB,0BAAO,uBAAP,I;cACV,IAAI,kBAA
O,CAAX,C;oCACiB,iBAAa,qBAAb,C;kCACF,C;gBACD,6C;gBAAV,iB;;;sCAAa,gBAAc,qBAAd,C;gBACH,+C;
gBAAV,gB;;;;;;;;cAAA,KAAU,2BAAV,C;gBAAA,gB;;;;cAAU,kC;cACN,mBAAO,WAAI,GAAJ,C;cACP,IAAI,m
BAAO,SAAX,C;gBACI,IAAI,mBAAO,KAAP,GAAc,uBAAlB,C;kBAA0B,sBAAAS,0B;sBAAAS,mBAAO,kBAAuB,uBAAvB,
C;kBAAA8B,gB;;;kBAAxE,gB;;;;gBADJ,gB;;;;gBAAA,iCAGI,iCAAU,8BAAJ,GAAAiB,mBAAAjB,GAA6B,iBAA
U,mBAAAV,CAAnC,O;kBAAA,2C;uBAAA,yB;cAAA,Q;;cACA,mBAAO,qBAAY,uBAAZ,C;cAJX,gB;;;cAAA,c
ACI,gB;8BAAA,iCAAU,8BAAJ,GAAAiB,mBAAAjB,GAA6B,iBAAU,mBAAAV,CAAnC,O;cACA,mBAAO,qBAAY,
uBAAZ,C;cAFX,gB;;;;cACA,mBAAO,qBAAY,uBAAZ,C;cAFX,gB;;;cAAIA,IjL4K4C,CiL5KxC,mBjL4KyC,UiL5K7C,C;gBA
AyB,iB;gCAAA,iCAAM,mBAAN,O;oBAAA,2C;yBAAA,yB;gBAAA,Q;;gBAAAzB,iB;;;;;cAjCR,W;;cA4BI,iB;;;c
A1BJ,iB;;;cAGI,KAAU,yBAAV,C;gBAAA,iB;;;;6BAAU,sB;cACN,mBAAO,WAAI,kBAAAO,CAAX,C;gBAAAgB,oCAAQ,CA
AR,I;gBAAAW,iB;;;gBAAA3B,iB;;;;;cAACA,iBAAO,WAAI,YAAJ,C;gBAAAgB,oCAAQ,CAAR,I;gBAAAW,iB;;;gBAA
AiB,iBAAO,Q;;gBAAAa,oBAAAS,iBAAAU,uBAAAV,C;cAC9C,kBAAO,c;cAHX,iB;;;cAAHX,iB;;;cAAA,IjL+LgD,CiL/LgD,
5C,iBjL+L6D,L6C,UiL+L/LjD,C;gBAAA,iBAAAS,IAAAU,qCAAAU,iBAAA,KAAAe,uBAAArC,C;kBAAA2C,iB;;;;kCAAA,sB;iB
AAN,O;sBAAA,2C;2BAAA,yB;kBAAA,Q;;kBAAA3C,3C;;;;;;cAAAA,iB;;;;gBAAAa,oBAAAS,iBAAAU,uBAAAV,C;cACI, kBAAO,c;cAHX,iB;;;cAAAS,iB;;;;;;;;;;;;;;;;;;;;;K;IArCyB,sI;MAAA,yD;uBAAA,6K;YAAA,S;iBAAA,Q;;iBAAA,uB;O;
K;IAF7B,6E;MACI,IAAI,CAA
C,QAAS,UAAd,C;QAAyB,OAAO,2B;MAChC,OAAAO,WAAkB,0EAAlB,C;K;IAwCwB,6B;MAAA8B,uB;MAAA7B,
kB;MAChC,mBAAA6B,C;MAC7B,eAAyB,C;K;2CAEzB,8B;MACI,+DAAkB,SAAAlB,B;EAAA6B,OAAA7B,B;EAAAsC,W
AAK,KAAA3C,C;MACA,mBAAAiB,S;MACjB,eAAAeAAa,UAAAU,SAAAV,I;K;K;0CAGjB,iB;MACI,+DAAAkB,K,AAAlB,EAAA,K,
AAAlB,EAA
yB,YAAzB,YAAzB,C;K;K;qFAGY,Y;MAAQ,mB;K;;IASR,wC;MAAAqD,u;EBAAApD,sB;;;IASR,wC;MAAAqD,
CAGA,iBAAA;MAGW,Q;MAAPA,+DAAkB,KAAAkB,C;EAAA6B,OAAAlB,B;EAAAsC,WAAA3C,C;MAAA,mBAAAiB,S;MACA,
EAAAeAAaAUAAAVAA,SAAAVAA,I;SAAAzB,C;MAEA,OAAO,OAAO,sBAAmGmC,CAAnG,OAAO,sBAAA
O,O;CAnG5B,kBAAuB,aAAAS,iBAAAU,C;CAnG5B,kBAAA

AlB,GAA4B,UAAP,aAAO,EAAO,WAAP,CAA5B,GAAqD,qBAAQ,gBAAa,WAAb,OAAR,C;MACrE,OAAO,eA
AW,SAAX,EAAsB,SAAtB,C;K;qCAGX,mB;MAII,IAAI,aAAJ,C;QACI,MAAM,6BAAsB,qBAAtB,C;;MAGV,cA
6B0C,CA7BnC,iBA6BoC,GA7BjB,SA6BiB,IAAD,IAAa,eA7BvD,IAAmC,O;MACnC,6B;K;+CAGJ,a;MzKhJA,I
AAI,EyKoJQ,KAAK,CzKpJb,CAAJ,C;QACI,cyKmJkB,wC;QzKlJlB,MAAM,gCAAyB,OAAQ,WAAjC,C;;MAFV
,IAAI,EyKqJQ,KAAK,SzKrJb,CAAJ,C;QACI,gByKoJqB,wEAA8D,S;QzKnJnF,MAAM,gCAAyB,SAAQ,WAAjC
,C;;MyKqJN,IAAI,IAAI,CAAR,C;QACI,YAAY,iB;QACZ,UAgBsC,CAhB5B,KAgB6B,GAhBf,CAgBe,IAAD,IA
Aa,e;QAdnD,IAAI,QAAQ,GAAZ,C;UACW,OAAP,aAAO,EAAK,IAAL,EAAW,KAAX,EAAkB,eAAlB,C;UACA,
OAAP,aAAO,EAAK,IAAL,EAAW,CAAX,EAAc,GAAd,C;;UAAEA,OAAP,aAAO,EAAK,IAAL,EAAW,KAAX,E
AAkB,GAAlB,C;;QAGX,oBAAa,G;QACb,wBAAAQ,CAAR,I;;K;qCAKR,wB;MAC8C,QAAC,YAAO,CAAP,IAA
D,IAAa,e;K;;IA9G3D,0C;MAAA,oD;MAA6B,uBAAK,gBAAmB,QAAnB,OAAL,EAAmC,CAAnC,C;MAA7B,Y;
K;ICvFJ,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YAAY,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB
,IAAN,C;MACZ,OAAO,KAAK,CAAZ,C;QACI,OtL+B4E,0BsL/BrE,kBAAM,CAAN,CtL0Q2B,KAAL,GAAiB,G
A3O8B,EsL/B1D,KtL0QgB,KAAL,GAAiB,GA3O8B,CsL/BrE,IAAP,C;UACI,a;;QACJ,OtL6B4E,0BsL7BrE,kBA
AM,CAAN,CtLwQ2B,KAAL,GAAiB,GA3O8B,EsL7B1D,KtLwQgB,KAAL,GAAiB,GA3O8B,CsL7BrE,IAAP,C;
UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UACV,kBAAM,CAAN,EAAW,kBAAM,
CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;;;MAGR,OAAO,C;K;IAGX,uC;MA
GI,YAAY,aAAU,KAAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAAO,QAAAO,CAAR,IAAP,C;QACI,
UAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,UAAU,QA
AQ,CAAR,IAAV,EAAqB,KAArB,EAA4B,KAA5B,C;K;IAGR,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YA
AY,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CAAjB,IAAN,C;MACZ,OAAO,KAAK,CAAZ,C;QACI,OpL+B
4E,0BoL/BrE,kBAAM,CAAN,CpL0P3B,KAAL,GAAiB,KApO8B,EoL/B1D,KpL0PgB,KAAL,GAAiB,KApO8B,C
oL/BrE,IAAP,C;UACI,a;;QACJ,OpL6B4E,0BoL7BrE,kBAAM,CAAN,CpLwP3B,KAAL,GAAiB,KApO8B,EoL7
B1D,KpLwPgB,KAAL,GAAiB,KApO8B,CoL7BrE,IAAP,C;UACI,a;;QACJ,IAAI,KAAK,CAAT,C;UACI,UAAU
,kBAAM,CAAN,C;UACV,kBAAM,CAAN,EAAW,kBAAM,CAAN,CAAX,C;UACA,kBAAM,CAAN,EAAW,GA
AX,C;UACA,a;UACA,a;;;MAGR,OAAO,C;K;IAGX,yC;MAGI,YAAY,aAAU,KAAV,EAAiB,IAAjB,EAAuB,K
AAvB,C;MACZ,IAAI,QAAO,QAAAC,CAAR,IAAP,C;QACI,YAAU,KAAV,EAAiB,IAAjB,EAAuB,QAAQ,CA
AR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,UAAU,QAAQ,CAAR,IAAV,EAAqB,KAArB,EAA4B,KAA5B
,C;K;IAGR,0C;MAII,QAAQ,I;MACR,QAAQ,K;MACR,YAAY,kBAAM,CAAC,OAAO,KAAP,IAAD,IAAiB,CA
AjB,IAAN,C;MACZ,OAAO,KAAK,CAAZ,C;QACI,OrLnB8D,YqLmBtB,kBAAM,CAAN,CrLnBwE,KAAjB,E
qLmBlB,kBAAM,CAAN,CrLnByB,KAA7B,CqLmB9C,IAAP,C;UACI,a;;QACJ,OrLhB8D,YqLgBtB,kBAAM,CAA
N,CrLhBwE,KAAjB,EqLgBlB,kBAAM,CAAN,CrLhByB,KAA7B,CqLgB9C,IAAP,C;UACI,a;;QACJ,IAAI,KAA
K,CAAT,C;UACI,UAAU,kBAAM,CAAN,C;UACV,kBAAM,CAAN,EAAW,kBAAM,CAAN,CAAX,C;UACA
,kBAAM,CAAN,EAAW,GAAX,C;UACA,a;UACA,a;;;MAGR,OAAO,C;K;IAGX,yC;MAGI,YAAY,aAAU,K
AAV,EAAiB,IAAjB,EAAuB,KAAvB,C;MACZ,IAAI,QAAO,QAAAC,CAAR,IAAP,C;QACI,YAAU,KAAV,EA
AiB,IAAjB,EAAuB,QAAQ,CAAR,IAAvB,C;MACJ,IAAI,QAAQ,KAAZ,C;QACI,UAAU,QAAQ,CAAR,IAAV,
EAAqB,KAArB,EAA4B,KAA5B,C;K;IAKR,gD;MAI6E,UAAU,KAAV,EAAiB,SAAjB,EAA4B,KAA4B,UAA
U,CAAV,IAA5B,C;K;IAC7E,gD;MAC6E,YAAU,KAAV,EAAiB,SAAjB,EAA4B,KAA4B,UAAU,CAAV,IAA5B
,C;K;IxK9I7E,0C;MF0BI,IAAI,EEjBI,SAAU,OAAV,GAAiB,CFiBrB,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,
gCAAyB,OAAQ,WAAjC,C;;MElBV,OAAAO,oBAAoB,CAAApB,EAAuB,CAAAuB,EAAvB,CAAAvB,EAA0B
,SAA1B,C;K;IAGX,8C;MACe,Q;MAAX,wBAAAW,SAAX,gB;QAAAW,SAAA,SAAA,M;Q;;K;;

ACI,SAAS,GAAG,CAAH,C;QACT,SAAS,GAAG,CAAH,C;QACT,WAAW,cAAc,EAAd,EAAkB,EAAlB,C;QAC
X,IAAI,SAAQ,CAAZ,C;UAAe,OAAO,I;;MAE1B,OAAO,C;K;sGAGX,yB;MAAA,8D;MAAA,iC;QASI,OAAO,c
AAc,SAAS,CAAT,CAAd,EAA2B,SAAS,CAAT,CAA3B,C;O;KATX,C;sGAYA,sC;MASI,OAAO,UAAW,SAAQ,
SAAS,CAAT,CAAR,EAAqB,SAAS,CAAT,CAArB,C;K;IAatB,6B;MAWY,Q;MALR,IAAI,MAAM,CAAV,C;QA
Aa,OAAO,C;MACpB,IAAI,SAAJ,C;QAAe,OAAO,E;MACtB,IAAI,SAAJ,C;QAAe,OAAO,C;MAGtB,OAA8B,iB
AAtB,mDAAsB,EAAU,CAAV,C;K;IAaZ,6C;MAAA,uB;QAAU,2BAAoB,CAApB,EAAuB,CAAvB,EAA0B,iBA
A1B,C;O;K;IAVhC,8B;MF7CI,IAAI,EEsDI,SAAU,OAAV,GAAiB,CFtDrB,CAAJ,C;QACI,cAda,qB;QAeb,MAA
M,gCAAyB,OAAQ,WAAjC,C;;MEqDV,OAAO,eAAW,2BAAX,C;K;0FAIX,yB;MAAA,sC;MAAA,oC;MAAA,u
BAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,E
AA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MAPf,2B;QAOI,sBAAW,0BAAX,C;O;KAPJ,C;0FASA,yB;M
AAA,oC;MAQe,gE;QAAA,uB;UAAU,iBAAsB,kB;UAAtB,eAAkC,gB;UAAlC,OA1Dd,UAAW,SAAQ,SA0DW,C
A1DX,CAAR,EAAqB,SA0DC,CA1DD,CAArB,C;S;O;MAkDtB,uC;QAQI,sBAAW,sCAAX,C;O;KARJ,C;4GAU
A,yB;MAAA,sC;MAAA,oC;MAAA,iCAOe,yB;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/
Ed,cAAc,SA+EgB,CA+EhB,CAAd,EAA2B,SA+EM,CA+EN,CAA3B,C;W;S;OA+EI,C;MAPf,2B;QAOI,sBAAW,o
CAAX,C;O;KAPJ,C;8GASA,yB;MAAA,oC;MAUe,0E;QAAA,uB;UAAU,iBAAsB,kB;UAAtB,eAAkC,gB;UAAlC
,OA/Ed,UAAW,SAAQ,SA+EW,CA+EX,CAAR,EAAqB,SA+EC,CA+ED,CAArB,C;S;O;MAqEtB,uC;QAUI,sBAA
W,gDAAX,C;O;KAVJ,C;kFAYA,yB;MAAA,sC;MAAA,oC;MAAA,oBAQe,yB;QA9Gf,8D;eA8Ge,yC;UAAA,uB;
YACP,sBAAsB,WAAY,SAAQ,CAAR,EAAW,CAAX,C;YAClC,Q;YAAA,IAAI,oBAAAmb,CAAvB,C;cAAA,OA
A0B,e;;cAAqB,eAAsB,gB;gB;cAArE,OAAvGG,cAAc,SAuG8C,CAvG9C,CAAd,EAA2B,SAuGoC,CAvGpC,CAA3B,
C;;YAsGH,W;W;S;OADO,C;MARf,sC;QAQI,sBAAW,kCAAX,C;O;KARJ,C;oFAaA,yB;MAAA,oC;MAQe,0E;Q
AAA,uB;UACP,sBAAsB,WAAY,SAAQ,CAAR,EAAW,CAAX,C;UAClC,Q;UAAA,IAAI,oBAAAmb,CAAvB,C;Y
AAA,OAA0B,e;;YAAqB,eAAsB,gB;cB;YAAtB,eAAkC,gB;cjF;YAAjF,OAxGG,UAAW,SAAQ,SAwGyB,CAxGz
C,CAAR,EAAqB,SAwGoB,CAxGpB,CAArB,C;;YAsGH,W;W;S;O;MATR,kD;QAQI,sBAAW,8CAAX,C;O;K;sGA
aA,yB;MAAA,sC;MAAA,oC;MAAA,8BAQe,yB;QAxIf,8D;eAwIe,yC;UAAA,uB;YACP,sBAAsB,qBAAsB,SAA
Q,CAAR,EAAW,CAAX,C;YAC5B,Q;YAAA,IAAI,oBAAAmb,CAAvB,C;cAAA,OAA0B,e;;cAAqB,eAAsB,gB;gB;
cAArE,OA/Hd,cAAc,SA+HgB,CA+HhB,CAAd,EAA2B,SA+HM,CA+HN,CAA3B,C;;YAsIH,W;W;S;OADO,C;MARf
,sC;QAQI,sBAAW,4CAAX,C;O;KAR;UAiId,W;S;O;MATR,kD;QAQI,sBAAW,wDAAX,C;O;KARJ,C;kGAcA,yB;
MAAA,oC;MAOe,wE;QAAA,uB;YAAU,iBAAsB,kB;YAAtB,eAAkC,gB;YAAlC,OA+He,wE;QAAA,uB;UAAU,iBA
AsB,mBAAoB,SAAQ,CAAR,EAAW,CAAX,C;UAA1C,eAAkC,gB;UAAlC,OA0Ie,wE;QAAA,uB;UAAU,iBAAsB,
kB;UAAtB,eAAkC,gB;UAAlC,OAsI1C,UAAW,SAAQ,CAAR,EAAW,CAAX,EAAc,CAAd,C;S;O;MATvD,wC;QAOI,
sBAAW,4CAAX,C;O;KAPJ,C;IAmBe,oD;MAAA,uB;QAACP,sBAAsB,SAAU,SAAQ,CAAR,EAAW,CAAX,C;Q
AAhC,OACI,oBAAmB,CAAvB,GAAA0B,eAA1B,GAA+C,mBAAAAW,CAAX,EAAAc,CAAd,C;S;O;MAT
vD,wC;QAOI,sBAAW,4CAAX,C;O;KAPJ,C;;UiAAhC,OAAmB,CAAvB,GAAA0B,eAA1B,GAA+C,mBAAAAW,
CAAX,EAAAc,CAAd,C;S;O;MATlE,+C;QAOI,sBAAc,4CAAd,C;K;IAaW,+C;MAAA,uB;QAACP,sBAAc,SAAU,
SAAQ,CAAR,EAAW,CAAX,C;QAAhC,OACI,oBAAmB,CAAvB,GAAA0B,eAA1B,GAA+C,mBAAAAW,+C;M
AOI,sBAAc,4CAAd,C;K;IAaW,+C;MAAA,uB;QAEH,UAAM,CAAN,C;UADJ,OACe,C;QaACX,c;UAFJ,OAEiB,E;
aACb,c;UAHJ,OAGiB,C;;UAHjB,OAIY,kBAAW,SAAAQ,CAAR,EAAW,CAAX,C;O;K;IAZ/B,gC;MAOI,sBAAW,
6BAAX,C;K;4FAASJ,yB;MAAA,4D;MAAA,wD;MAAA,mB;QAAA,uB;YAAU,iBAAsB,gB;YAAtB,eAAkC,gB;YAAlC
,OA0Ie,C;KAPrE,C;IAgBe,8C;MAAA,uB;QAAU,iBAAsB,gB;QAAtB,OA0Ie,C;;;UiAA1C,OAAmB,C;K;4FAASJ,
yB;MAAA,4D;MAAA,wD;MAAA,mB;QAAA,uB;YAAU,iBAAsB,gB;YAAtB,eAAkC,gB;YAAlC,OA0Ie,C;KAPpE,C;
IAgBe,+C;MAAA,uB;QAEH,UAAM,CAAN,C;UADJ,OACiB,C;aACb,c;UAFJ,OAEiB,E;aACb,c;UAHJ,OAGiB,C;;
UAHjB,OAIY,kBAAW,SAAAc,CAAR,EAAW,CAAX,C;O;K;IAZ/B,iC;MAOI,sBAAc,6BAAd,C;K;2CAChC,gB;QA
AAwC,OAAA,eAAW,SAAQ,CAAR,EAAW,CAAX,C;K;K;4CACnD,Y
;MACgC,sB;K;;IAGpC,kC;MAAA,sC;K;+CACI,gB;QAAAoE,OAAAE,iBAAF,CAAAE,EAAAU,CAAV,C;K;gDACtE,
Y;MAC8C,2C;K;;;IAHlD,8C;MAAA,6C;QAAA,4B;;MAAA,sC;K;IAMA,kC;MAAA,sC;K;+CACI,gB;QAAAoE,O
AAAE,iBAAF,CAAAE,EAAAU,CAAV,C;K;gDACtE,Y;MAC8C,2C;K;;;IAHlD,8C;

K;8EyKjTA,4B;MAUI,OAAK,iBAAL,SAAK,EAAU,KAAV,C;K;ICTT,iC;K;;;;oDAyDI,0C;MAiB+D,oB;QAAA,
2C;aAjB/D,kG;K;;IAoBJ,uC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,qC;MAAA,wC;O;MASI,4E;MAMA,8E;M
AOA,4E;MAOA,kE;K;;IApBA,mD;MAAA,2B;MAAA,2C;K;;IAMA,oD;MAAA,2B;MAAA,4C;K;;IAOA,mD;M
AAA,2B;MAAA,2C;K;;IAOA,8C;MAAA,2B;MAAA,sC;K;;IA7BJ,iC;MAAA,+K;K;;IAAA,sC;MAAA,a;aAAA,c;
UAAA,gD;aAAA,e;UAAA,iD;aAAA,c;UAAA,gD;aAAA,S;UAAA,2C;;UAAA,oE;;K;;oFAqCA,mB;K;;;;;;;;;;;;;;;
;;I7HmBiD,gD;MAAA,oB;QACzC,WAAW,sBAAmB,YAAF,CAAE,CAAnB,C;QACX,cAAM,IAAN,C;QADA,O
AEA,IAAK,a;O;K;;;;IAtHb,+B;K;;iFAUA,yB;MAAA,4B;MAAA,mC;QAMI,6BDgDQ,WChDkB,KDgDlB,CChD
R,C;O;KANJ,C;2GAQA,yB;MAAA,4B;MDgDQ,kD;MChDR,uC;QAOI,6BDgDQ,WAAO,cChDW,SDgDX,CAAP
,CChDR,C;O;KAPJ,C;+FAUA,yB;MAAA,kC;MAAA,mD;MAAA,yE;QASI,sC;QAAA,4C;O;MATJ,iGAWY,Y;Q
AAQ,2B;OAXpB,E;MAAA,0DAaQ,kB;QACI,wBAAW,MAAX,C;O;MAdZ,sF;MAAA,sC;QASI,0D;O;KATJ,C;I
AiBA,gD;MAaI,4BAA0D,YAAzC,wCAA6B,UAA7B,CAAyC,CAA1D,EAAyE,yBAAzE,C;K;IAEJ,4D;MAcI,4B
AAoE,YAAnD,0CAA6B,QAA7B,EAAuC,UAAvC,CAAmD,CAApE,EAAmF,yBAAnF,C;K;IAEJ,+C;MAU6C,Y
AAzC,wCAA6B,UAA7B,CAAyC,CAAtEzC,oBDgDQ,WCsBsD,kBDtBtD,CChDR,C;K;IAyEJ,2D;MAWuD,YAAn
D,0CAA6B,QAA7B,EAAuC,UAAvC,CAAmD,CApFnD,oBDgDQ,WCoCgE,kBDpChE,CChDR,C;K;IAuFJ,+C;M
AYI,OAA6C,8BAAtC,c;K;8EAZX,yB;MAAA,oE;MAAA,6E;MAYiD,gD;QAAA,oB;UACzC,WAAW,sBAAmB,
YAAF,CAAE,CAAnB,C;UACX,cAAM,IAAN,C;UADA,OAEA,IAAK,a;S;O;MAfb,sC;QAYW,mBAAsC,8BAAt
C,6B;QAAP,OAAO,kD;O;KAZX,C;qGA0BI,yB;MAAA,2D;MAAA,mB;QACI,MAAM,6BAAoB,0BAApB,C;O;
KADV,C;;M8HzIA,yC;;IAAA,uC;MAAA,2C;K;;;IAAA,mD;MAAA,kD;QAAA,iC;;MAAA,2C;K;+EAkBA,wB;K
;oDAaA,e;MAK2C,IAAI,IAAJ,EAGK,M;MAL5C,IAAI,+CAAJ,C;QAEI,OAAW,GAAI,kBAAS,IAAK,IAAd,CA
AR,GAA4B,cAAI,OAAJ,GAAI,iBAAQ,IAAR,CAAJ,yCAA5B,GAAyD,I;;MAGpE,OAAW,8CAA4B,GAAhC,GA
AqC,8EAArC,GAAoD,I;K;yDAI/D,e;MAGI,IAAI,IAAJ,EAGK,M;MAL5C,IAAI,+CAAJ,C;QAEI,OAAW,GAAI,
kBAAS,IAAK,IAAd,CAAR,GAA4B,cAAI,OAAI6B,oBAAgB,O
AAhB,EAAyB,OAAzB,C;;UACrB,WAAW,OAAAQ,kBAAS,yCAAAT,C;UAL3B,OAMY,SAAS,mCAAAb,GAAI,YAAAY,mCAA
hB,C;QADA,OACuC,O;;QAEnC,kBAAAkB,oBAAAQ,yCAAR,C;QAClB,IAAI,mBAAAC,C;UAJJ,OAI6B,oBAAAgB,O
AAhB,EAAyB,OAAzB,C;;UACrB,WAAW,OAAAQ,kBAAS,yCAAT,C;UAL3B,OAMY,SAAS,mCAAAb,GAAI,YAAAY,mC
AAhB,C;QADA,OACuC,O;;QAEnC,kBAAAkB,oBAAAQ,yCAAR,C;QAClB,IAAI,mBAAAC,C;;K;8CAdxB,mB;MAKI,
OAAI,YAAY,mCAAhB,GAAuC,IAAAvC,GACI,OAAQ,cAAK,IAAL,EAAW,4B
AAX,C;K;;;;;;qDAiCZ,e;MAEyB,Q;MADrB,OACI,OAAA,IAAK,IAAL,EAAY,GAAAZ,CAAJ,GAAAqB,0EAArB,G
AAoC,I;K;sDAExC,8B;MACI,iBAAU,OAAAV,EAAmB,IAAnB,C;K;;0DAEJ,e;MACI,OAAI,OAAAIAAK,IAAL,E
AAY,GAAAZ,CAAJ,GAAAqB,mCAArB,GAAgD,I;K;;;IC1DP,8C;MAAC,wB;K;kFAAA,Y;MAAA,yB;K;;IAiCe,wD
;MAEjE,kC;MAEA,4BAAqC,mDAAJ,GAAkD,OAAQ,qBAA1D,GAA0E,O;K;4DAE3G,mB;MAA6C,+BAAS,OA
AT,C;K;6DAC7C,e;MAA8C,eAAQ,IAAR,IAAgB,8BAAe,G;K;;IAGjF,+C;MAW2C,IAAI,IAAJ,EAGV,M;MAL7
B,IAAI,+CAAJ,C;QAEI,OAAW,GAAI,kBAAS,SAAAK,IAAd,CAAR,GAA4B,cAAI,OAAAJ,GAAI,iBAAQ,IAAR,
CAAJ,yCAA5B,GAAyD,I;;MAGpE,OAAW,8CAA4B,GAAAQ,GAAqC,8EAArC,GAAoD,I;K;;IAGhD,6C
;MAUI,IAAI,+CAAJ,C;QACI,OAAW,GAAI,kBAAS,SAAAK,IAAd,CAAR,GAA4B,cAAI,OAAAJ,GAAI,iBAAQ,
IAA0B,GAAI,iBAAQ,IAAR,CAAJ,yCAAzD,GAAoF,S;;MAAE,OAAW,8CAAsv4B,GAAAQ,GAAqC,8EAAt
B,GAAAiD,S;K;I
AG5D,iC;MAAA,qC;MAKI,4B;K;oDACA,Y;MAAiC,0C;K;kDAEjC,e;MAAyD,W;K;mDACzD,8B;MAA4E,c;K;
mDAC5E,mB;MAAAwE,c;K;uDACxE,e;MAA8D,W;K;+CAC9D,Y;MAAsC,Q;K;+CACtC,Y;MAAyC,8B;K;;;IAb7
C,6C;MAAA,4C;QAAA,2B;;MAAA,qC;K;IAqB8B,wC;MAC1B,kB;K;4CAGA,e;MAGQ,Q;K;MAFJ,U
AAU,I;MACV,OAAAO,IAAAP,C;QAACI,YAAA,GAAAI,UAAAJ,aAAAY,GAAAZ,W;UAAAwB,W;;QAACxB,WAAAW,GAAAI,
O;QACf,IAAI,oCAAAJ,C;UACI,MAAM,I;;UAEN,OAAAO,IAAAP,C;UAACI,YAAA,GAAAI,UAAAJ,aAAAY,GAAAZ,W;
Q;;K;6CAKnB,8B;MACI,iBAAU,WAAA,OAAAJ,C;K;iDAEJ,e;MAGW,Q;K;MAFP,OAAAO,IAAAP,C;QAAACI,YAAA,
GAAAI,UAAAJ,aAAAY,GAAAZ,W;UAAAwB,W;;QAACxB,WAAAW,GAAAI,O;MAAC,IAAI,oCAAAJ,C;;K;;;;;IAb7
C,6C;MAAA,4C;QAAA,2B;;MAAA,qC;K;;IAqBe,wC;MAAA,mB;K;UAAgC,0C;K;;IAA7C,6C;MAAA,4C;QAAA,2
B;;MAAA,qC;K;;IAqBe,wC;MAC1B,kB;K;4CAGA,e;MAGQ,Q;K;MAFJ,UAAU,I;MACV,OAAAO,IAAAP,C;QAAC
I,YAAA,GAAAI,UAAAJ,aAAAY,GAAAZ,W;UAAAwB,W;;QAACxB,WAAAW,GAAAI,O;QACf,IAAI,oCAAAJ,C;UACI,M
AAM,I;;UAEN,OAAAO,IAAAP,C;QAAACnC,M;QAACN,mB;;K;;I2CAIR,mB;MACI,+BAAI,OAAAQ,IAAAZ,GAAAoB,OAA
pB,C;K;;8CA
EJ,mB;MAQ4B,Q;MAPxB,UAAAO,O;MACV,OAACV,OAAAO,IAAAP,C;QAACI,IAAAA,CAAAC,g;QBAAS,GAAAI,UAAb,C
AAL,C;UAA4B,O;;;MAHZ,OAAAO,IAAAN,gB;MAACI,IAAAA,CAAAC,g;K;UAAgC,O;;MAAAmB;UAAAgC
,OAAAO,W;;K;;;IAA7C,6C;MAAA,4C;QAAA,2B;;MAAA,qC;K;;IAqA7C,MAAM,M;MQACN,mB;;K;2CAIR,mB;MAC
I,MACI,+BAAAQ,IAAAZ,GAAAoB,OAApB,C;K;UAAgC,O;;MAAAmB;UAAAgC,OAAAO,W;;K;;;IAA7C,6C;MAAA,4
C;QAAA,2B;;MAAA,qC;K;;I0EA

AT,C;;;K;uCAKnB,iB;MACI,gBAAS,KAAT,KAAkB,yCAA4B,KAAM,SAAN,KAAgB,aAA5C,IAAsD,KAAM,e
AAY,IAAZ,CAA9E,C;K;yCAEJ,Y;MAA+B,OAAK,SAAL,WAAK,CAAL,GAA0B,SAAR,cAAQ,CAA1B,I;K;IA
GZ,uD;MACX,OAAI,G5JyHoC,YAAU,C4JzHlD,GAAmB,OAAQ,WAA3B,GAA6C,GAAF,UAAQ,O;K;yCAF3D
,Y;MACI,aAAM,kBAAK,EAAL,EAAS,+BAAT,CAAN,GAAEI,G;K;IAMO,8E;MAAA,6B;QAAyB,Q;QAAT,iBA
AS,sBAAT,EAAS,8BAAT,UAAoB,O;QAAQ,W;O;K;+CAJ3D,Y;MAOsB,Q;MANlB,QAAQ,a;MACR,eAAe,gBA
A+B,CAA/B,O;MACf,gBAAY,CAAZ,C;MACA,kBAAK,kBAAL,EAAW,oDAAX,C;M/KtFJ,IAAI,E+KuFM,YA
AS,C/KvFf,CAAJ,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;;M+KuFN,OAAO,+BAAW,qDA
AX,C;K;IAGa,8C;MACpB,kD;MADqB,wB;K;IACrB,gD;MAAA,oD;MACI,4B;K;;;IADJ,4D;MAAA,2D;QAAA,0
C;;MAAA,oD;K;yDAIA,Y;MAA0C,gBAAT,a;M7Lm9YrB,Q;MADhB,kB6L9l9YmD,mC;M7Lm9YnD,wBAAgB,S
AAhB,gB;QAAgB,cAAA,SAAhB,M;QAAsB,cAAwB,yBAAa,OAAb,C;;M6Ln9YT,O7Lo9Y9B,W;K;;;I8LtoZX,o
E;MA4BI,MAAM,wBAAoB,sEAApB,C;K;8GA5BV,yB;MAAA,2D;MAAA,sC;QA4BI,MAAM,6BAAoB,sEAAp
B,C;O;KA5BV,C;IA0CoC,mC;MAAQ,4D;K;IAE5C,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;
O;MAK0C,oG;MAAqB,gF;MAAW,4E;K;;IAAhC,+D;MAAA,gC;MAAA,uD;K;;IAAqB,qD;MAAA,gC;MAAA,6
C;K;;IAAW,mD;MAAA,gC;MAAA,2C;K;;IAL1E,sC;MAAA,sJ;K;;IAAA,2C;MAAA,a;aAAA,qB;UAAA,4D;aA
AA,W;UAAA,kD;aAAA,S;UAAA,gD;;UAAA,qF;;K;;6ECnDA,yB;MAAA,0B;MAAA,mC;QAGsD,OAAiC,OAA
3B,SAAL,GAAuB,KAAS,C;O;KAHvF,C;2EAKA,yB;MAAA,0B;MAAA,mC;QAGqD,OAAgC,OAA1B,SAAL,G
AAsB,KAAS,C;O;KAHrF,C;6EAKA,yB;MAAA,0B;MAAA,mC;QAGsD,OAAiC,OAA3B,SAAL,GAAuB,KAAS,
C;O;KAHvF,C;6EAKA,yB;MAAA,0B;MAAA,4B;QAGqC,OAAqB,OAAP,CAAR,SAAe,C;O;KAH1D,C;+EAMA
,yB;MAAA,4B;MAAA,mC;QAGyD,OAAiC,QAA3B,SAAL,GAAuB,KAAS,C;O;KAH1F,C;6EAKA,yB;MAAA,4
B;MAAA,mC;QAGwD,OAAgC,QAA1B,SAAL,GAAsB,KAAS,C;O;KAHxF,C;+EAKA,yB;MAAA,4B;MAAA,m
C;QAGyD,OAAiC,QAA3B,SAAL,GAAuB,KAAS,C;O;KAH1F,C;+EAKA,yB;MAAA,4B;MAAA,4B;QAGuC,O
AAqB,QAAP,CAAR,SAAe,C;O;KAH5D,C;ICpCA,qC;K;;ICAA,mB;K;IAOA,iB;K;IAOA,2C;K;IAOA,wB;K;;I
AQA,0B;K;;IAOA,sB;K;;IAOA,4B;K;;IAOA,6C;K;;IA+BuC,wE;MAEnC,uB;QAAA,UAAsB,E;MACtB,qB;QAA
A,8B;MACA,2B;QAAA,qE;MACA,yB;QAAA,YAAqb,E;MAJrB,sB;MACA,sB;MACA,kB;MACA,8B;MACA,0
B;K;;IAGJ,iD;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,+C;MAAA,kD;O;MAKI,wG;MACA,wG;MACA,8F;K;;I
AFA,iE;MAAA,qC;MAAA,yD;K;;IACA,iE;MAAA,qC;MAAA,yD;K;;IACA,4D;MAAA,qC;MAAA,oD;K;;IAPJ,2
C;MAAA,6K;K;;IAAA,gD;MAAA,a;aAAA,kB;UAAA,8D;aAAA,8D;aAAA,a;aUAAA,yD;;UAAA,6E;;K;;IAUA,w
B;K;;IAjUA,wB;K;;IAAA,a;aAAA,kB;UAAA,8D;aAAA,8D;aAAA,a;UUAAA,yD;;UAAA,6E;;K;;IAiUA,wB;K;;I
AjUA,wB;K;;IAjUA,wB;K;;IAjUA,wB;K;;IAiUA,wB;K;;IAiUA,wB;K;;IAiUA,wB;K;;IAiUA,wB;K;;IAjUA,wB;K;
;IAUA,wB;K;;IAjGA,qB;K;0CAII,qB;QAAA,yB;K;0CAII,yB;K;0CAII,4D;QAAA,qC;MAAA,oD;K;;IAPJ,2C;
QAAA,6K;K;;IAAA,gD;QAAA,a;aAAA,kB;UAAA,8D;aAAA,8D;aAAA,a;UAAA,yD;;UAAA,6E;;K;;IAUA,wB
;K;;IAjUA,wB;K;;IAAA,a;aAAA,kB;UAAA,8D;aAAA,8D;aAAA,a;UAAA,yD;;UAAA,6E;;K;;IAiUA,wB;K;;IAj
UA,wB;K;;IAjUA,wB;K;;IAUA,wB;K;;IAjGA,qB;K;0CAII,qB;QAAA,yB;K;0CAII,yB;K;0CAII,4D;QAAA,qC;M
AAA,6K;K;;IAAA,gD;QAAA,a;aAAA,kB;UAAA,8D;aAAA,8D;aAAA,a;UAAA,yD;;UAAA,6E;;K;;IAjGA,qB;K
;;IAjUA,wB;K;;IAAA,a;aAAA,kB;UAAA,8D;aAAA,8D;aAAA,a;UAAA,yD;;UAAA,6E;;K;;IAiUA,wB;K;;IAjUA
,wB;K;;IAiUA,wB;K;;IAiUA,wB;K;;IAiUA,wB;K;;

EAAP,CAAW,Q;UAEpB,aAAQ,CAAR,C;YACI,eAAe,SAAS,IAAT,C;YAEf,OAAmB,oBAAnB,sBAAS,QAAT,C
AAmB,CAAnB,iB;;iBAEJ,cAAS,CAAT,C;YAEI,OAAU,oBAAV,cAAU,CAAV,iB;;YAEA,iBAAe,SAAS,KAAT,
C;YACf,OAAmB,oBAAnB,sBAAS,UAAT,CAAmB,CAAS,WAAI,EAAJ,CAA5B,KAAiD,oBAAV,cAAU,CAAV,
iBAAvC,C;;UAXR,U;;UAeA,K;;YAEI,WAAW,eAAW,oBAAK,CAAL,C;YACtB,IAAI,YAAO,CAAP,C;;UACC,s
BAAO,CAAP,MAAY,+BAAI,CAAJ,EAAZ,eAAqB,CAArB,C;UACT,MAAM,C;;QAEV,OAAO,SAAO,GAAP,C;
;QAEP,OAAO,IAAP,C;UACI,YAAU,e;UACV,IAAW,IAAP,0CAAkB,KAAlB,CAAJ,C;YAA6B,OAAO,K;;;K;m
CAKhD,Y;MAKyC,6BAAS,CAAT,MAAe,C;K;kCAExD,Y;MAKuC,uBAAgB,sBAAS,EAAT,CAAhB,EAA8B,sB
AAS,EAAT,CAA9B,C;K;0CAEvC,iB;MASoD,+BAAW,GAAX,EAAgB,KAAhB,C;K;0CAEpD,uB;MAcY,Q;MA
FR,mBAAiB,IAAjB,EAAuB,KAAvB,C;MACA,WAAW,QAAQ,I;MACX,IAAS,WAAL,IAAK,CAAL,IAA0B,SA
AL,IAAK,CAA1B,IAA8C,SAAN,KAAM,CAAlD,C;QACJ,SAAS,qBAAgB,QAAQ,CAAR,GAAY,OAAO,CAAn
C,C;QACT,cAAO,EAAP,GAAY,E;;QAEZ,cAAO,oBAAAe,I;;MAJ1B,Y;MAMA,OAAW,KAAK,KAAT,GAAsB,S
AAN,KAAM,CAAtB,GAAsC,C;K;iCAGjD,Y;MAKqC,6BAAS,EAAT,IAA0B,Q;K;IAWK,oF;MAAA,mB;QAAE,
uBAAAa,iBAAAb,sBAAAqC,eAAArC,+BAAAqE,aAAM,OAA3E,M;O;K;iDATtE,qC;MxLjLA,IAAI,EwL0LqB,CAAb,8
BAAgB,KAAM,OxL1L9B,GwL0LiD,CAAX,0BAAc,KAAM,OxL1L1D,GwL0LsC,KxL1LtC,CAAJ,C;QACI,cwL
yLgE,kDxLzLlD,E;QACd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MAFV,IAAI,EwL2LQ,aAAa,OxL3LrB,CAAJ,C;
QACI,gBwL0LgC,mF;QxLzLhC,MAAM,gCAAyB,SAAQ,WAAjC,C;;MwL2LN,YAAY,CAAC,UAAU,SAAV,IA
AD,IAAwB,CAAxB,I;MAEZ,mBAAAe,SAAf,C;MrLzLEJ,iBAAc,CAAd,UqL0LEW,KrL1LEX,U;QqLl2LEQ,QAAQ,c;Q
ACR,MAAM,UAAN,IAAoB,OAAF,CAAE,C;QACpB,MAAM,aAAAW,CAAX,IAAN,IAAgC,OAAV,CAAE,KAA
K,CAAG,C;QAChC,MAAM,aAAAW,CAAX,IAAN,IAAiC,OAAV,CAAE,KAAK,EAAI,C;QACjC,0BAAY,CAAZ,I;
;MAChB,SAAS,sBAAS,YAAY,CAAZ,IAAT,C;MACT,aAAAU,CAAV,MAAkB,SAAlB,M;QACI,MAAM,aAAAW,C
AAX,IAAN,IAAqC,OAAf,CAAE,KAAK,IAAI,C;;MAGzC,OAAO,K;K;yCACX,uD;MAvB4C,yB;QAAA,YAAiB,C;
MAAG,uB;QAAA,UAAe,KAAM,O;aARrF,0H;K;yCAiCA,iB;MAOyD,8BAAU,KAAV,E
AAiB,CAAjB,EAAoB,KAAM,OAA1B,C;K;yCAEzD,gB;MAKkD,8BAAU,cAAU,IAAV,CAAV,C;K;IAGlD,0B;
MAAA,8B;MAO2B,iB;MACvB,uBAAAoc,uB;K;IAEpC,qC;MAAA,yC;MACI,4B;K;wDAEA,Y;MAAiC,mC;K;;;I
AHrC,iD;MAAA,gD;QAAA,+B;;MAAA,yC;K;8CAMA,Y;MAAAkC,8C;K;gDAElC,oB;MAA4C,OAAA,oBAAAc,k
BAAS,QAAT,C;K;uCAC1D,Y;MAA8B,OAAA,oBAAAc,U;K;+CAC5C,iB;MAAwC,OAAA,oBAAAc,iBAAQ,KAA
R,C;K;+CACtD,uB;MAAmD,OAAA,oBAAAc,iBAAQ,IAAR,EAAc,KAAd,C;K;wCAEjE,Y;MAAgC,OAAA,oBAA
c,W;K;gDAC9C,iB;MAA2C,OAAA,oBAAAc,kBAAS,KAAT,C;K;gDACzD,uB;MAAuD,OAAA,oBAAAc,kBAAS,I
AAT,EAAe,KAAf,C;K;2CAErE,Y;MAAsC,OAAA,oBAAAc,c;K;0CAEpD,Y;MAAoC,OAAA,oBAAAc,a;K;kDACl
D,iB;MAAiD,OAAA,oBAAAc,oBAAAW,KAAX,C;K;kDAC/D,uB;MAA+D,OAAA,oBAAAc,oBAAAW,IAAX,EAAi
B,KAAjB,C;K;yCACjB,C;K;yCAE7E,Y;MAAkC,OAAA,oBAAAc,Y;K;iDAEhD,iB;MAAsD,OAAA,oBAAAc,mB
AAU,KAAV,C;K;iDACxE,uB;MAA+C,OAAA,oBAAAc,mBAAU,IAAV,EAAgB,KAAhB,C;K;yDAC7D,qC;MACI,O
AAA,oBAAAc,mBAAU,IAAV,EAAgB,KAAhB,EAAuB,IAAvB,C;K;yDACX,uC;MACI,OAAA,oBAAAc,mBAAU,I
AAV,EAAgB,KAAhB,EAAuB,IAAvB,EAA6B,KAA7B,C;K;;;IAtCtB,sC;MAAA,qC;QAAA,oB;;MAAA,8B;K;;IA0CJ,wB;M
AAuC,yBAAa,I
AAb,EAAmB,IAAK,IAAI,EAAA5B,C;K;IAEvC,wB;MAawC,yBAAa,IAAK,QAAlB,EAAA2B,IAAK,YAAI,EAAAJ,C
AAQ,QAAAxB,C;K;IAGxC,mC;MAUI,IAAA,KAAM,UAAN,C;QAAAmB,MAAM,gCAAAyB,uCAAoC,KAA7D,C;
WACzB,IAAA,KAAM,KAAN,GAAa,UAAAb,C;QAAbc,MAAd,gCAAAyB,uCAAoC,KAA7D,C;WACzB,IAAA,KAAM,
OAAN,GAAc,WAAAd,C;QAAda,MAAd,gCAAAyB,uCAAoC,KAA7D,C;UAEI,IAAA,OAAG,0BAAAQ,KAAM,MA
Ad,EAAAqB,IAAK,YAAI,EAAAJ,CAAvB,I;;UAHe,IAAA,GAAZoB,oC;MAAUI,IAAA,KAAAc,KAAM,UAAN,GA
AA,uCAAoC,KAA7D,C;WACzB,IAAA,KAAM,KAAN,GAAa,UAAAb,C;QAAbc,MAAd,gCAAAyB,uCAAoC,KAA
7D,C;UAEI,IAAA,OAAG,0BAAAQ,KAAM,MAAd,EAAAqB,IAAK,YAAI,EAAAJ,CAAvB,I;;UAHe,IAAA,GAAZ
oB,uC;MAAUI,IAAA,KAAAc,KAAM,UAAN,GAAA,uCAAoC,KAA7D,C;MAAc,IAAA,KAAAQ,oBAAAwB,YAA
C,YjFrTkB,MAAO,OiFqTpB,KjFrToB,CiFqFqTzB,I;K;IAEzC,4C;MAEI,OAAA,SAAAK,KAAK,EAAAL,GAAA
U,KAAAK,EAAAL,GAAAU,QAAAf,GAAAU,CAAAX,CAAAC,QAAAD,IAAAW,KAAAI,E;K;IAEjD,uC;MxLtVI,IAA
I,EwLsVV,IAAA,IxLtVU,CAAJ,C;QACI,cwLqVgB,IxLrVhB,E;QACd,MAAM,gCAAyB,OAAQ,WAAjC,C;;M
wLuVN,OAAA,IAA,IxLtV/D,C;K;IwLwVJ,wB;MxLxVI,IAAI,EwLwVQ,IAAA,IxLxVZ,C;QACI,cwLuVwB,Ix
LvVxB,E;QACd,MAAM,gCAAyB,OAAQ,WAAjC,C;;MwLyVN,OAAA,IAA,IxLxV/D,C;K;IwL0VJ,wB;MxL1VI,IA
AI,EwL0Vd,IAAA,IxL1Vc,CAAJ,C;QACI,cwLyVoB,IxLzVpB,E;QACd,MAAM,gCAAyB,OAAQ,WAAjC,C;;M
wL2VN,OAAA,IAA,IxL1V/D,C;K;IwL4VJ,wB;MAAyD,OAAA,oCAAA0B,IAAA1B,IAAA1B,qBAAAiC,KAAAjC,kB
AAAZ;K;ICrXzD,6

B;MAOqC,OpMmYE,SoMnYF,mBpMmYE,C;K;IoMjYvC,sC;MASgD,6BAAS,WAAT,EAAa,KAAb,C;K;IAEhD
,4C;MAUI,qBAAqB,IAArB,EAA2B,KAA3B,C;MAEA,iBAAiB,IpMqQgB,KoMrQhB,GAAiB,W;MAClC,kBAAk
B,KpMoQe,KoMpQf,GAAkB,W;MAEpC,mBAAmB,0BAAQ,UAAR,EAAoB,WAApB,IAAqC,W;MACxD,OpMs
WmC,SoMtW5B,YpMsW4B,C;K;IoMnWvC,sC;MAWI,IAAA,KAAM,UAAN,C;QAAmB,MAAM,gCAAyB,uCA
AoC,KAA7D,C;;QACzB,IpMGkE,YoMHlE,KAAM,KpMG6E,KAAjB,EoMHrD,4BAAK,UpMG6E,KAA7B,CoM
HlE,K;UAFiD,OAElB,sBAAS,KAAM,MAAf,EpMqBsB,SoMrBA,KAAM,KpMqBI,KAAK,GAAW,CoMrBb,Wp
MqBa,MAAX,IAAf,CoMrBtB,C;;UAC/B,IpMEkE,YoMFlE,KAAM,MpME6E,KAAjB,EoMFpD,4BAAK,UpME4
E,KAA7B,CoMFlE,K;YAHiD,OpMuBI,SoMpBrB,sBpMiCsB,SoMjCb,KAAM,MpMiCiB,KAAK,GAAY,CoMjC1
B,WpMiC0B,MAAZ,IAAf,CoMjCtB,EAA2B,KAAM,KAAjC,CpMoB+B,KAAK,GAAW,CoMpBBN,WpMoBBM,M
AAX,IAAf,C;;YoMvBJ,OAIzC,mB;;;K;IAGZ,8B;MAOuC,OpL0VG,UoL1VH,oBpL0VG,C;K;IoLxV1C,uC;MAS
mD,8BAAU,2BAAV,EAAe,KAAf,C;K;IAEnD,6C;MAUI,sBAAsB,IAAtB,EAA4B,KAA5B,C;MAEA,iBAAiB,Ip
LwNkB,KoLxNlB,8B;MACjB,kBAAkB,KpLuNiB,KoLvNjB,8B;MAElB,mBAAmB,2BAAS,UAAT,EAAqB,WA
ArB,+B;MACnB,OpL6TsC,UoL7T/B,YpL6T+B,C;K;IoL1T1C,uC;MAWI,IAAA,KAAM,UAAN,C;QAAmB,MA
AM,gCAAyB,uCAAoC,KAA7D,C;;QACzB,IpL7CmE,aoL6CnE,KAAM,KpL7C+E,KAAlB,EoL6CtD,6BAAM,Up
L7C8E,KAA9B,CoL6CnE,K;UAFoD,OAEpB,uBAAU,KAAM,MAAhB,EpLhCuB,UoLgCA,KAAM,KpLhCCK,KA
AK,KAAW,ChBsQ7C,UAAW,oBAAL,CoMtOyB,WpMsOzB,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,CAAhB,
CoLgCvB,C;;UAChC,IpL9CmE,aoL8CnE,KAAM,MpL9C+E,KAAlB,EoL8CrD,6BAAM,UpL9C6E,KAA9B,CoL
8CnE,K;YAHoD,OpL9BI,UoL9BBG,UoLiCtB,uBpLpBuB,UoLoBb,KAAM,MpLpBkB,KAAK,KAAK,UAAY,ChBy
Pp/C,UAAW,oBAAL,CoMrOc,WpMqOd,MAAK,CAAL,iBAAN,CgBzPzP+C,MAAZ,CAAhB,CoLoBvB,EAA4B,KAAM,KAAlC,CpLiBCp/C,MAAZ,CAAhB,CoLoBvB,C;;YoL9BCp
LjCiC,KAAK,KAAW,ChBsQ7C,UAAW,oBAAL,CoMrOgC,WpMqOhC,MAAK,CAAL,iBAAN,CgBtQ6C,MAA
X,CAAhB,C;;YoL8BBH,OAI5C,mB;;;K;IAGZ,sC;MAQI,4BAAU,KjK4+FH,QiK5+FP,C;MACA,OAAAO,K;K;IAGX
,uC;MAKsD,OjK2iG3C,eiK3iG2C,4BAAU,IAAV,CjK2iG3C,C;K;IiKziGX,4D;MAOgD,yB;QAAA,YAAiB,C;M
AAG,uB;QAAA,UAAe,KAAM,K;MACrF,4BAAU,KjKy9FH,QiKz9FP,EAA+B,SAA/B,EAAA0C,OAAA1C,C;C;MAC
A,OAAAO,K;K;IAIX,2C;MzLrHI,IAAI,EX2B8D,YoM0FD,KpM1FkB,KAAjB,EoM0FO,IpM1FsB,KAA7B,CoM0F
D,IzLrH7D,CAAJ,C;QACI,cyLoH6E,+B;QzLnH7E,MAAM,gCAAyB,OAAQ,WAAjC,C;;K;IyLoHd,4C;MzLtHI,I
AAI,EKmC+D,aoLmFC,KpLnFiB,KAAlB,EoLmFS,IpLnFqB,KAA9B,CoLmFC,IzLtHhE,CAAJ,C;QACI,cyLqHsE,+B
F,+B;QzLpHHhF,MAAM,gCAAyB,OAAQ,WAAjC,C;;K;I0LpBc,6C;MAsCxB,oC;MA/BA,iB;MANA,Y;MACA,Y;
MACA,Y;MACA,Y;MACA,Y;MACA,sB;M1LYA,IAAI,E0LLQ,CAAC,WAAK,QAAL,GAAU,QAAV,GAAe,QA
Af,GAAoB,QAArB,MAA2B,C1LKnC,CAAJ,C;QACI,c0LNwC,wD;Q1LOxC,MAAM,gCAAyB,OAAQ,WAAjC,
C;;MGoHV,iBAAc,CAAd,UuLxHW,EvLwHX,U;QuLxHiB,c;;K;qCACGjB,Y;MAGI,QAAQ,Q;MACR,IAAI,IAAO
,MAAO,C;MAClB,WAAI,Q;MACJ,WAAI,Q;MACJ,WAAI,Q;MACJ,SAAS,Q;MACT,WAAI,E;MACJ,IAAK,IAA
O,KAAM,CAAd,GAAsB,EAAtB,GAA8B,MAAO,C;MACzC,WAAI,C;MACJ,gCAAU,MAAV,I;MACA,OAAO,I
AAI,aAAJ,I;K;8CAGX,oB;MACI,OAAU,cAAV,cAAU,EAAc,QAAd,C;K;IAEd,kC;MAAA,sC;MACI,4B;K;;;IAD
J,8C;MAAA,6C;QAAA,4B;;MAAA,sC;K;;IA7BA,gD;MAAA,6C;QAAA,4B;;MAAA,sC;K;;IA7BA,gD;MAAA,4
B;;MAAA,sC;K;;IA7BA,gD;MAAA,sD;MACQ,yB;MAAA,sD;MACR,IAAI,IAAO,MAAO,C;MAClB,WAAI,Q;
MACJ,WAAI,Q;MACJ,WAAI,Q;MACJ,WAAI,Q;MACJ,0BAAI,C;MACA,gBADnB,CAA/B,C;K;yCAIX,Y;MACI
,OAAW,cAAJ,GAAe,EAAf,GAAuB,MAAW,SAAN,UAAM,CAAX,C;K;yCAGlC,Y;MAAkC,OAAAE,UAAF,qB
AAU,oB;K;;IAGhD,kC;MAM6E,2BAAgB,SAAhB,EAAsB,EAAtB,IA
AxB,C;K;IAQvD,+C;MAI1B,gBAAqB,K;MACrB,uBAA4B,Y;K;yFACF,Y;MAAQ,oB;K;gGACD,Y;MAAQ,2B;
K;0DAEzC,gB;MAA6D,YAAK,kDAAL,iB;MACA,SAAS,oB;K;yCAC3E,3E;MAAk
k

C,SAAE,iBAAU,oBAAZ,C;K;wCAElC,iB;MACI,OAAO,2CAA8B,kBAAa,KAAM,UAAnB,KAC7B,kBAAU,KA
AM,SAAhB,IAA0B,yBAAiB,KAAM,gBADpB,CAA9B,C;K;0CAIX,Y;MACI,OAAW,cAAJ,GAAe,EAAf,GAAu
B,MAAY,SAAP,aAAO,CAAZ,QAAuC,SAAd,oBAAc,CAAvC,I;K;0CAGlC,Y;MAAkC,OAAE,aAAF,qBAAW,o
B;K;;IAGjD,oC;MAOkF,4BAAiB,SAAjB,EAAuB,IAAvB,C;K;oFAGlF,8B;MAQI,0BAAmB,2BAAS,OAAT,C;K;
IAGvB,+C;MACI,IAAI,CAAC,UAAL,C;QAAiB,MAAM,gCAAyB,iCAA8B,IAA9B,iBAAzB,C;K;IC5I3B,gC;MA
cW,Q;MADP,IAAI,CAAC,6BAAW,KAAX,CAAL,C;QAAwB,MAAM,uBAAmB,sC/EjBzC,oB+EiByC,CAAnB,C
;;MAC9B,OAAO,sD;K;IAMX,oC;MAakC,Q;MAA9B,OAAW,6BAAW,KAAX,CAAJ,GAAuB,sDAAvB,GAAuC,
I;K;;;;;;;ICvBhB,yC;MA2B9B,uC;MA1BA,wB;MAIA,gB;M7LQA,IAAI,E6LDS,iBAAY,IAAb,MAAuB,iBAAvB,
C7LCR,CAAJ,C;QACI,c6LDQ,iBAAY,IAAhB,GACI,8CADJ,GAGI,sCAA0B,aAA1B,qC;Q7LDR,MAAM,gCAA
yB,OAAQ,WAAjC,C;;K;yC6LKV,Y;MAAwC,Q;MAAA,oB;MACpC,iB;QAD8B,OACtB,G;WACR,oD;QAAF8B,O
AEF,SAAL,SAAK,C;WAC5B,6C;QAH8B,OAGd,iBAAAK,SAAL,C;WAChB,8C;QAAF8B,OAIb,kBAAAM,SAAN,C;;
QAAJa,mC;K;IAOlC,qC;MAAA,yC;MACI,YAGqC,oBAAAgB,IAAhB,EAAsB,IAAtB,C;K;iGAQJ,Y;MAAQ,gB;K;4
DAEzC,gB;MAOI,8DAAqC,IAArC,C;K;gEAEJ,gB;MAMI,uDAA8B,IAA9B,C;K;4DAEJ,gB;MAMI,wDAA+B,I
AA/B,C;K;;;IArCR,iD;MAAA,gD;QAAA,+B;;MAAA,yC;K;;2CArCJ,Y;MAWI,oB;K;2CAXJ,Y;MAeI,gB;K;6CA
fJ,0B;MAAA,2BAWI,8CAXJ,EAAeI,kCAfJ,C;K;yCAAA,Y;MAAA,c;MAWI,c;MAAA,iB;MAfJ,qD;MAAfa,a;K;uCAAA,iB;
MAAA,4IAWI,4CAXJ,IAAeI,oCAfJ,I;K;ICLA,kC;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,gC;MAAA,mC;O;MA
YI,4D;MAKA,8C;MAKA,gD;K;;IAVA,2C;MAAA,sB;MAAA,mC;K;;IAKA,oC;MAAA,sB;MAAA,4B;K;;IAKA,
qC;MAAA,sB;MAAA,6B;K;;IAtBJ,4B;MAAA,mG;K;;IAAA,iC;MAAA,a;aAAA,W;UAAA,wC;aAAA,I;UAAA,i
C;aAAA,K;UAAA,kC;;UAAA,6D;;K;;6ECAA,yB;MAAA,4F;MAAA,2B;QASI,MAAM,mCAA8B,0EAA9B,C;O;
KATV,C;ICkCA,+D;MAaW,Q;MAAP,OAAO,8CAAO,KAAP,EAAc,UAAd,EAA0B,QAA1B,oC;K;IAGX,kC;MA
IiB,Q;MAAb,wBAAa,KAAb,gB;QAAa,WAAA,KAAb,M;QACI,yBAAO,IAAP,C;;MACJ,OAAO,S;K;mFAGX,qB
;MAGwD,gCAAO,EAAP,C;K;qFAExD,4B;MAG4E,OAAA,yBAAO,KAAP,CALpB,gBAAO,EAAP,C;K;qFAOx
D,4B;MAGmE,OAAA,yBAAO,KAAP,CAVX,gBAAO,EAAP,C;K;IAaxD,wD;MAEQ,sB;QAAqb,yBAAO,UAA
U,OAAV,CAAP,C;WACrB,sD;QAA4B,yBAAO,OAAP,C;WAC5B,2B;QAAAmB,yBAAO,kBAAP,C;;QAACX,yBA
Ae,SAAR,OAAQ,CAAf,C;K;IlL7EhB,+B;MAY6B,kBAAlB,QAAQ,SAAR,EAAc,EAAd,C;MACH,IX0EE,WW1E
E,GAAK,CAAT,C;QAAY,MAAM,gCAAyB,oEAAzB,C;MADtB,OX4EO,W;K;IWvEX,wC;MAgBW,Q;MAAA,q
CAAiB,KAAjB,C;MAAA,iB;QAA2B,MAAM,gCAAyB,8BAAO,SAAP,4CAA+C,KAAxE,C;;MAAxC,OAAO,I;K
;IAGX,qC;MAY6B,kBAAlB,QAAQ,SAAR,EAAc,EAAc,EAAd,C;MAAP,OXmEqB,WWnEa,IAAM,CXmEjC,GAAqB,
WAArB,GAA+B,I;K;IWhE1C,8C;MAgBI,WAAW,KAAX,C;MAC4B,kBAArB,QAAQ,SAAR,EAAc,KAAd,C;M
AAP,OX+CqB,WW/CgB,IAAM,CX+CpC,GAAqB,WAArB,GAA+B,I;K;IW5C1C,gC;MAWI,IAAY,CAAR,8BA
AW,CAAf,C;QACI,OAAO,YAAM,SAAN,C;;MAEX,MAAM,gCAAyB,SAAM,SAAN,4BAAzB,C;K;IAGV,yC;M
AkBW,Q;MAANP,IAAI,EAAU,CAAV,sBAAa,EAAb,CAAJ,C;QACI,MAAM,gCAAyB,oBAAiB,KAAjB,4CAAzB,
C;;MAEV,IAAI,IAAAI,YAAO,CAAP,IAAY,aAAAa,KAAxB,C;QACI,MAAM,gCAAyB,WAAQ,SAAR,mDAAwD,KAAj
F,C;;MAEH,IAAI,YAAAO,EAAAX,C;QACH,mBAAM,SAAN,C;;QAEA,0BAAM,SAAN,IAAa,EAAb,C;;MAHJ,W;
K;IAuFJ,8B;MAWsC,+B;K;0EAEtC,4B;MAM8D,OAAAK,oBAAL,SAAK,EAAoBL,SAAAK,SAAK,CAAL,GAAG
B,K;K;K;IAEhF,gD;MAQoC,0B;MAAA,aAAsB,SAAK,cAAL,SAAK,C;MAChC,iBA1ET,OA0ES,C;M3Lg7CT,kB
AAoB,gB;MAoSd,gB;MAD4B,Y2LlrDZ,W3LkrDY,C;MA5UD,O2LtW6B,gB;iB3LsW7B,c;;Q2LtWyC,gBAAaY,oE
3LsW7C,kBAAAb,OAAAa,C2LtW6C,C;;C3LsW6B,kB;;K2LtW7B,gBAAAa,OAAAa,C;;QAAa,sB;K;QA1RsB,U;MAQ
2B,cA0RT,gB;mBA0RD,gB;MAD4B,Y2LpvDZ,W3LovDY,C;MA5UD,O2LxXuB,gB;iB3LwXvB,c;;Q2LxXmB,gBAAaY,
oEAAzB,C;;C3LwX6B,kB;;K2LxX7B,gBAAAa,OAAAa,C;;QAAa,sB;K;QAyRX,U;MApR0B,cAyRF,gB;mBA0RD,g
B;MAD4B,Y2LlzDZ,W3LkzDY,C;MA5UD,O2L9buB,gB;iB3L8bvB,c;;Q2L9bmB,gBAAaY,oEAAzB,C;;C3L8b6B,kB;;
K2L9b7B,gBAAAa,OAAAa,C;;QAAa,sB;K;QA5RsB,U;;MAQ2B,cA5RT,gB;;Open Source Used In Virtual Visitation System 3.0 3.0.2 - Update 1873

wB;;;YAGR,sBAAO,E;;;U+KrHH,iD;UAGI,gCAA2B,EAA3B,C;YAHJ,2BAGqC,I;iBACjC,IAAK,a3LyxD0C,I2L
zxD1C,gBAAyB,uBAAzB,CAAL,C;YAJJ,2B3L6xDmD,IOjmDsB,WoLxLI,0BAAuC,mBAAvC,IpLwLJ,C;;YoL5
LzE,2BAKY,I;;UAyER,iE9LJD,yB8LIC,4B3L+sD+C,I;;QA1RpB,8B;UAA6C,6B;;;M2LpgDhF,OAiFK,S3Lo7CE,
W2Lp7CF,EAAO,mBAAc,kBAAd,CAAP,EAA0C,IAA1C,CACA,W;K;IAvET,+B;MAeyC,gCAAc,EAAd,C;K;IA
EzC,6C;MAGgC,yB;QAAA,YAAoB,E;MAM3C,Q;MALL,cAAY,gB;M3LurBL,kBAAS,gB;MA2FA,U;MAAA,S2
LhxBM,O3LgxBN,W;MAAhB,OAAgB,gBAAhB,C;QAAgB,2B;QAAM,Ia3hB6B,CAAC,Qb2hBhB,Oa3hBgB,Cb
2hB9B,C;UAAwB,WAAY,WAAI,OAAJ,C;;M2L9wBrD,kB3L+wBE,W;MAmrBA,oBAAM,iBAAa,qCAAwB,EA
AxB,CAAb,C;MAuEA,U;MAAA,+B;MAAb,OAAa,gBAAb,C;QAAa,wB;QACT,aAAY,uBAAc,IAAd,E;;M2L5gD
hB,sBAAsB,CAGjB,oB3L0gDE,a2L1gDF,CAHiB,mBAGF,C;MAEP,yBAAS,mBAAS,YAAA,SAAU,OAAV,EA
AmB,OAAM,KAAzB,CAAT,I;MAAT,wBAAiD,kBAAkB,SAAlB,C;MAmC9D,gBAAgB,iBAnCT,OAmCS,C;M3
Lg7CT,oBAAoB,gB;MAoSd,kB;MADb,YAAY,C;MACC,S2LvvDN,O3LuvDM,W;MAAb,OAAa,gBAAb,C;QAA
a,0B;QA1RsB,U;QAAA,cA0RT,oBAAmB,cAAnB,EAAmB,sBAAnB,U;Q2L/sDlB,kB;Q3L

BAAiB,QAAQ,KAAR,I;YAEjB,IAAI,SAAS,cAAb,C;cACI,OAAO,I;;;YAGX,OAAO,I;;;QAIf,6BAAU,KAAV,C;
QAEA,IAAI,UAAS,QAAQ,KAAR,IAAT,CAAJ,C;UAA4B,OAAO,I;QAEnC,kBAAU,KAAV,I;;MAGJ,OAAW,U
AAJ,GAAgB,MAAhB,GAA4B,CAAC,MAAD,I;K;IAGvC,iC;MAK0C,iCAAqB,EAArB,C;K;IAE1C,0C;MAQI,W
AAW,KAAX,C;MAEA,aAAa,SAAK,O;MAClB,IAAI,WAAU,CAAd,C;QAAiB,OAAO,I;MAExB,S;MACA,c;MA
CA,S;MAEA,gBAAgB,qBAAK,CAAL,C;MAChB,IAAI,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAd,C;UAAiB,
OAAO,I;QAExB,QAAQ,C;QAER,IAAI,cAAa,EAAjB,C;UACI,aAAa,I;UACb,gC;eACG,IAAI,cAAa,EAAjB,C;U
ACH,aAAa,K;UACb,6B;;UAEA,OAAO,I;;QAEX,QAAQ,C;QACR,aAAa,K;QACb,6B;;MAIJ,2C;MAEA,qBAAq
B,gB;MACrB,e;MACA,aAAU,KAAV,MAAsB,MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAAiB,K
AAjB,C;QAEZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,IAAI,uBAAS,cAAT,KAAJ,C;UACI,IAAI,uBAAk
B,gBAAlB,CAAJ,C;YACI,iBAAiB,8BAAQ,KAAR,E;YAEjB,IAAI,uBAAS,cAAT,KAAJ,C;cACI,OAAO,I;;;YAG
X,OAAO,I;;;QAIf,6CAAU,KAAV,E;QAEA,IAAI,uBAAS,8BAAQ,KAAR,EAAT,KAAJ,C;UAA4B,OAAO,I;QAE
nC,6CAAU,KAAV,E;;;MAGJ,OAAW,UAAJ,GAAgB,MAAhB,GAA6B,MAAD,a;K;IAIvC,kC;MAAyD,MAAM,0
BAAsB,6BAA0B,KAA1B,MAAtB,C;K;uEwBhI/D,yB;MAAA,oC;MAAA,uC;QAII,iBAAiB,C;QACjB,eAAe,mB
AAS,CAAT,I;QACCf,iBAAiB,K;QAEjB,OAAO,cAAc,QAArB,C;UACI,YAAgB,CAAC,MAAD,I;QAAC,Q;QAAi
B,UAAL,GAAiB,UAAjB,G
AAiC,Q;QAC7C,YAAY,UAAU,iCAAK,KAAL,EAAV,C;QAEZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,I
L,C;cACI,aAAa,I;;cAEb,0BAAc,CAAd,I;;;YAEJ,IAAI,CAAC,KAAL,C;cACI,aAAa,K;caAAY,CAAZ,I;;;QAIZ,O
AAO,8BAAY,UAAZ,EAAwB,WAAAW,CAAX,IAAxB,C;O;KAzBX,C;O;KAzBX,C;yEA4BA,yB;MAAA,8B;MA5B
BA,uC;QA4BI,iBAAiB,C;QACjB,eAAe,mBAAS,CAAT,I;QACf,iBAAiB,K;QAEj
B,OAAO,cAAc,QAArB,C;UACI,YAAY,UAAU,iCAAK,KAAL,EAAV,C;UAEZ,IAAI,QAAQ,CAAZ,C;UAAe,O
AAO,I;UACtB,IAAI,uBAAS,cAAT,KAAJ,C;UACI,IAAI,uBAAkB,gBAAlB,CAAJ,C;YACI,iBAAiB,8BAAQ,K
AAR,E;YAEjB,IAAI,uBAAS,8BAAQ,KAAR,EAAT,KAAJ,C;cACI,OAAO,I;;;YAGX,OAAO,I;;;QAIf,6CAAU,K
AAV,E;QAEA,IAAI,uBAAS,8BAAQ,KAAR,EAAT,KAAJ,C;UAA4B,OAAO,I;QAEnC,6CAAU,KAAV,E;;;MAG
J,OAAW,UAAJ,GAAgB,MAAhB,GAA6B,MAAD,a;K;IAIvC,kC;MAAyD,MAAM,0BAAsB,6BAA0B,KAA1B,
MAAtB,C;K;IAMvC,kC;MAAyD,MAAM,0BAAsB,6BAA0B,KAA1B,MAAtB,C;K;

Aa,WAAR,yBAAQ,CAAb,W;QAAd,OAAc,cAAd,C;UAAc,uB;UACV,IAAI,CAmCkE,4BAnCvD,iCAAK,KAAL,
EAmCuD,EAnCtE,C;YACI,iBAAO,8BAAY,CAAZ,EAAe,QAAQ,CAAR,IAAf,C;YAAP,mB;;;QAER,iBAAO,E;;;
MAgCyD,qB;K;IAEpE,qC;MA3BK,Q;MAAsB,kBAAtB,2D;MAAsB,kB;;;QAXT,U;QAAA,SAAa,WAAR,eAAL,
WAAK,CAAQ,CAAb,W;QAAd,OAAc,gBAAd,C;UAAc,yB;UACV,IAAI,CAwCsD,4BAxC3C,mCAAK,KAAL,E
AwC2C,EAxC1D,C;YACI,iBAAO,gCAAY,CAAZ,EAAe,QAAQ,CAAR,IAAf,C;YAAP,mB;;;QAER,iBAAO,E;;;
MAqC6C,OA9BV,yB;K;IAgC9C,2B;MA9FI,iBAAiB,C;MACjB,eAAe,mBAAS,CAAT,I;MACf,iBAAiB,K;MAEj
B,OAAO,cAAc,QAArB,C;QACI,YAAgB,CAAC,UAAL,GAAiB,UAAjB,GAAiC,Q;QAC7C,mCAAsB,iCAAK,K
AAL,EAAtB,E;QAEA,IAAI,CAAC,UAAL,C;UACI,IAAI,CAAC,KAAL,C;YACI,aAAa,I;;YAEb,0BAAc,CAAd,I;
;UAEJ,IAAI,CAAC,KAAL,C;YACI,K;;YAEA,sBAAY,CAAZ,I;;;MAgF+B,OA5EpC,8BAAY,UAAZ,EAAwB,W
AAW,CAAX,IAAxB,C;K;yEA8EX,yB;MAAA,8B;MAAA,qC;MAAA,4B;QAI2C,Q;QAAD,OAAuB,KAAtB,2DA
AsB,CAAO,W;O;KAJxE,C;IAMA,gC;MAGoD,oB;;QA1E7B,gC;QAAA,gC;QAAL,mB;QAAA,kB;QAAA,kB;QA
Ad,0D;UACI,IAAI,wBAAW,iCAAK,KAAL,EAAX,EAAJ,C;YACI,mBAAO,8BAAY,KAAZ,EAAmB,gBAAnB,C
;YAAP,qB;;;QAER,mBAAO,E;;;MAsEyC,uB;K;mFAEpD,yB;MAAA,8B;MAAA,+C;MAAA,4B;QAIgD,Q;QAAD,
OAAuB,KAAtB,2DAAsB,CAAO,W;O;KAJlF,C;IAMA,8B;MAGkD,oB;;QA7Dd,gC;QAAA,gC;QAAL,mB;QAAA,
kB;QAAA,kB;QAAd,0D;UACI,IAAI,wBAAW,iCAAK,KAAL,EAAX,EAAJ,C;YACI,mBAAO,8BAAY,KAAZ,
EAAmB,gBAAnB,C;YAAP,qB;;;QAER,mBAAO,E;;;MAyDY,uB;K;mFAEpD,yB;MAAA,8B;MAAA,+C;MAAA,4B;
QAIgD,Q;QAAD,OAAuB,KAAtB,2DAAsB,CAAO,W;O;KAJlF,C;IAMA,8B;MAGkD,oB;;QA7Dd,gC;QAAA,g
C;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,wBAAW,iCAAK,KAAL,EAAX,EAAJ,C;YACI,mBAAO,
8BAAY,KAAZ,EAAmB,gBAAnB,C;YAAP,qB;;;QAER,mBAAO,E;;;MAyDY,uB;K;mFAEpD,yB;MAAA,8B;MAAA,
+C;MAAA,4B;QAIgD,Q;QAAD,OAAuB,KAAtB,2DAAsB,CAAO,W;O;KAJlF,C;IAMA,8B;MAGkD,oB;;QA7Dd,
gC;QAAA,gC;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,wBAAW,iCAAK,KAAL,EAAX,EAAJ,C;
YACI,mBAAO,8BAAY,KAAZ,EAAmB,gBAAnB,C;YAAP,qB;;;QAER,mBAAO,E;;;MAyDY,uB;K;mFAEpD,yB;
MAAA,8B;MAAA,+C;MAAA,4B;QAIgD,Q;QAAD,OAAuB,KAAtB,2DAAsB,CAAO,W;O;KAJlF,C;IAMA,8B;M
GkD,oB;;QA7Dd,gC;QAAA,gC;QAAL,mB;QAAA,kB;QAAA,kB;QAAd,0D;UACI,IAAI,wBAAW,iCAAK,KAAL,E
AX,EAAJ,C;YACI,mBAAO,8BAAY,KAAZ,EAAmB,gBAAnB,C;YAAP,qB;;;QAER,mBAAO,E;;;MAyDY,uB;K;
2FAEnD,qB;MAWI,OAAO,qBA
AgB,SAAK,OAAL,KAAe,C;K;+EAG1C,qB;MAMoD,4BAAU,C;K;sFAE9D,qB;MAMuD,0BAAS,C;K;mFAMhE,
yB;MAAA,2C;MAAA,4B;QAMuD,0BAAS,CAAb,O;O;KANxD,C;yFAQA,yB;MAAA,2C;MAAA,4B;QAWI,OAAO,qB
AAqB,QAAL,SAAK,C;O;KAXhC,C;IAiB4D,+C;MAAA,kC;MAAS,uB;MACjE,eAAoB,C;K;gDAEpB,Y;MAA2C
,gB;MAAA,iE;MAAJ,4C;K;+CAEvC,Y;MAAyC,sBAAQ,yB;K;;IARrD,+B;MAG4D,4C;K;+EAQ5D,qB;MAE8C,
uCAAQ,E;K;+EAEtD,mC;MASI,OA5DgD,qBAAU,CA4D1D,GAAe,cAAf,GAAmC,S;K;6EAEvC,yB;MAAA,2C;
MAAA,0C;QASI,OAAAI,kBAAAJ,GAAAe,cAAf,GAAmC,S;O;KATvC,C;IAeI,mC;MAAQ,uBAAAG,mBAAAS,C
AAT,I
AAH,C;K;IAMR,qC;MAAQ,OAAAA,SAAAK,OAAAL,GAAAc,CAAd,I;K;IAEZ,8C;MAIuB,Q;MAAA,0BAAAS,CAAT,
I;MAAnB,OAAAgB,OAAAgB,CAAT,8BACgB,gBAAAZ,qBAAAK,KAAAL,CAAAY,CADhB,IAAEoB,eAAAhB,qBA
AAK,QAAAC,CAAD,IAAG/B,C;K;IAG/B,yC;MGsw0yF,yC;MHtw0yE,MsKhG,yC;MAGuD,qCAAQ,wBAAAgB,CA
AgB,S;MAC9E,MAC/E,YAAY,sBAAQ,yBAAAK,KAAAL,CAAR,E;K;IAIG,mC;MAS2E,2B;MAAY,KAAAZ,EA
AAmB,GAAAnB,CAAD,IAAEoB,eAAAhB,qBAAAK,QAAAC,CAAD,IAAG/B,C;K;

KN9O4B,C;K;IMiPhG,4E;MAIyD,qC;QAAA,wBAAgC,S;MACrF,YAAY,0BAAY,SAAZ,C;MACZ,OAAW,UAA S,EAApB,GAAwB,qBAAxB,GNvP4F,oBMuP/B,CNvP+B,EMuP5B,KNvP4B,C;K;IM0PhG,yE;MAIsD,qC;QAAA ,wBAAgC,S;MAClF,YAAY,0BAAY,SAAZ,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNhQ4F,oBMg Q/B,QAAQ,CAAR,INhQ+B,EMgQpB,gBNhQoB,C;K;IMmQhG,2E;MAIwD,qC;QAAA,wBAAgC,S;MACpF,YA AY,0BAAY,SAAZ,C;MACZ,OAAW,UAAS,EAApB,GAAwB,qBAAxB,GNzQ4F,oBMyQ/B,QAAQ,SAAU,OAA lB,INzQ+B,EMyQL,gBNzQK,C;K;IM4QhG,oE;MAOI,IAAI,WAAW,UAAf,C;QACI,MAAM,8BAA0B,gBAAa,Q AAb,oCAAkD,UAAlD,OAA1B,C;MACV,SAAS,sB;MACT,EAAG,qBAAY,SAAZ,EAAkB,CAAlB,EAAqB,UAA rB,C;MACH,EAAG,gBAAO,WAAP,C;MACH,EAAG,qBAAY,SAAZ,EAAkB,QAAlB,EAA4B,gBAA5B,C;MAC H,OAAO,E;K;yFAGX,yB;MAAA,8B;MAAA,qD;MAAA,+D;QAOK,Q;QAAD,OAAuB,aAAtB,2DAAsB,EAAa,U AAb,EAAyB,QAAzB,EAAmC,WAAnC,CAAgD,W;O;KAP3E,C;IASA,uD;MAOI,+BAAa,KAAM,MAAnB,EAA 0B,KAAM,aAAN,GAAqB,CAAArB,IAA1B,EAAkD,WAAlD,C;K;yFAEJ,yB;MAAA,8B;MAAA,qD;MAAA,gD;Q AOK,Q;QAAD,OAAuB,aAAtB,2DAAsB,EAAa,KAAb,EAAoB,WAApB,CAAiC,W;O;KAP5D,C;IASA,sD;MASI ,IAAI,WAAW,UAAf,C;QACI,MAAM,8BAA0B,gBAAa,QAAb,oCAAkD,UAAlD,OAA1B,C;MAEV,IAAI,aAAY, UAAhB,C;QACI,OAAY,mBAAL,SAAK,EAAY,CAAZ,EAAe,gBAAf,C;MAEhB,SAAS,mBAAc,oBAAU,QAAV, GAAqB,UAArB,KAAd,C;MACT,EAAG,qBAAY,SAAZ,EAAkB,CAAlB,EAAqB,UAArB,C;MACH,EAAG,qBA AY,SAAZ,EAAkB,QAAlB,EAA4B,gBAA5B,C;MACH,OAAO,E;K;uFAGX,yB;MAAA,8B;MAAA,mD;MAAA,k D;QASK,Q;QAAD,OAAuB,YAAtB,2DAAsB,EAAY,UAAZ,EAAwB,QAAxB,EAAkC,WAAlC,CAAmB,W;O;KAT 9C,C;IAWA,yC;MAKqE,yB;MAAA,8B;MAAA,mD;M AAA,mC;QAOK,Q;QAAD,OAAuB,YAAtB,2DAAsB,EAAY,KAAZ,EAAmB,W;O;KAP9C,C;IASA, yC;MAKI,IAAI,wBAAW,MAAX,CAAJ,C;QACI,OAAO,8BAAY,MAAO,OAAnB,EAA2B,gBAA3B,C;;MAEX,O AAO,8BAAY,CAAZ,EAAe,gBAAf,C;K;IAGX,2C;MAKI,IAAI,wBAAW,MAAX,CAAJ,C;QACI,ON3XyE,oBM2 XxD,MAAO,ON3XiD,C;;MM6X7E,OAAO,S;K;IAGX,yC;MAKI,IAAI,sBAAS,MAAT,CAAJ,C;QACI,OAAO,8B AAY,CAAZ,EAAe,mBAAS,MAAO,OAAhB,IAAf,C;;MAEX,OAAO,8BAAY,CAAZ,EAAe,gBAAf,C;K;IAGX,2 C;MAKI,IAAI,sBAAS,MAAT,CAAJ,C;QACI,ON9YwF,oBM8YvE,CN9YuE,EM8YpE,mBAAS,MAAO,OAAhB ,IN9YoE,C;;MMgZ5F,OAAO,S;K;IAGX,sD;MAMI,IAAK,qBAAU,MAAO,OAAP,GAAgB,MAAO,OAAvB,IAA V,CAAD,IAA6C,wBAAW,MAAX,CAA7C,IAAmE,sBAAS,MAAT,CAAvE,C;QACI,OAAO,8BAAY,MAAO,OAAnB ,EAA2B,mBAAS,MAAO,OAAhB,IAA3B,C;;MMgZ5F,OAAO,S;K;IAGX,wD;M AMI,IAAK,qBAAU,MAAO,OAAP,GAAgB,MAAO,OAAvB,IAAV,CAAD,IAA6C,wBAAW,MAAX,CAA7C,IA AmE,sBAAS,MAAT,CAAvE,C;QACI,ONtawF,oBMsavE,MAAO,ONtagE,EMsaxD,mBAAS,MAAO,OAAhB,INt awD,C;;MMwa5F,OAAO,S;K;IAGX,mD;MAKmF,oCAAkB,SAAlB,EAAA6B,SAA7B,C;K;IAEnF,mD;MAKUe,sC AAkB,SAAlB,EAAA6B,SAA7B,C;K;IAEvE,iF;MAIsE,qC;QAAA,wBAAgC,S;MAClG,YAAY,sBAAAQ,SAAR,C;M ACL,Q;MAAA,IAAI,UAAS,EAAAb,C;QAAAA,OAAAiB,qB;;QAA5JvB,U;QAA4JM,OA5JgB,aAAtB,+DAAsB,EA 4JyC,EA4JyC,CA5JzC,EA4JJyC,CA5JJzC,EA4J4J4C,KA5J5J5C,EA4JJmD,WA5JnD,CAAgD,W;O;K;IAGX,mF;MA IwE,qC;QAAA,wBAAgC,S;MACpG,YAAY,sBAAApG,SAAR,C;MACL,Q;MAAA,IAAI,UAAS,EAAAb,C;QAAAA,O AAAiB,qB;;QAAqKvB,U;QAAqKqKM,OArKgB,aAAtB,+DAAsB,EAqKyC,EAqKyC,CArKzC,EAqKK4C,CArKL zC,EAqKK4C,KArKL5C,EAqKKmD,WArKnD,CAAgD,W;O;K;IAGX,gF;MAIqE,qC;QAAA,wBAAgC,S;MACjG,Y AAY,sBAAAjG,SAAR,C;MACL,Q;MAAA,IAAI,UAAS,EAAAb,C;QAAAA,OAAAiB,qB;;QAA2BvB,U;QAA2BM, OA2BmB,iBAAtB,+DAAsB,EAAWa,QAAX,EAAqB,CAAR,IAAAb,EA8JK4C,KA9JL5C,EA8JKmD,WA9JnD,CA AgD,W;O;K;;IAGX,8E;MAIsE,qC;QAAA,wBAAgC,S;MAClG,YAAY,sBAAAvG,SAAR,C;;MMwa5F,OAAO,S;K;;I AGX,gF;MAIuE,qC;QAAA,wBAAgC,S;MACnG,YAAY,sBAAAxG,SAAR,C;MACL,Q;MAAA,IAAI,UAAS,EAAAb, C;QAAAA,OAAAiB,qB;;QAAhLvB,U;QAAgLM,OAhLgB,aAAtB,+DAAsB,EAgLyC,EAgLyC,CAgLzC,EAgLK4C,KA gLL5C,EAgLKmD,WAhLnD,CAAgD,W;O;K;;IAGX,gF;MAIuE,qC;QAAA,wBAAgC,S;MACnG,YAAY,sBAAAzG, SAAR,C;;MMwa5F,OAAO,S;K;;I

NyC,CAlNzC,EAkN4C,KAlN5C,EAkNmD,WAlNnD,CAAgD,W;;MAkNvE,W;K;IAGJ,uF;MAI4E,qC;QAAA,wB
AAgC,S;MACxG,YAAY,0BAAY,SAAZ,C;MACL,Q;MAAA,IAAI,UAAS,EAAb,C;QAAA,OAAiB,qB;;QA3NvB
,U;QA2NM,OA3NgB,aAAtB,+DAAsB,EA2NyC,CA3NzC,EA2N4C,KA3N5C,EA2NmD,WA3NnD,CAAgD,W;;
MA2NvE,W;K;+EAOJ,yC;MAQoF,OAAA,KAAM,iBAAQ,SAAR,EAAc,WAAd,C;K;+EAE1F,uC;MAOI,OAAA,
KAAM,iBAAQ,SAAR,EAAc,SAAd,C;K;yFAEV,yC;MAMyF,OAAA,KAAM,sBAAA,SAAb,EAAmB,WAAnB,C;
K;+FAE/F,yB;MAAA,oC;MAAA,gC;MAAA,uC;QAeW,Q;QAAA,IApe4C,mBAAS,CAoerD,C;uBAAkB,oBAAU,
iCAAK,CAAL,EAAV,E;UAAA,YNljBoD,oBMkjBrB,CNljBqB,C;UMkjBtE,OLrjBwD,2BAAL,GAAkB,K;;UKqj
BrE,OAAyD,S;QAAhE,W;O;KAfJ,C;iGAkBA,yB;MAAA,oC;MAAA,uC;QAeI,OAtfmD,mBAAS,CAsf5D,GAAy
B,UAAU,iCAAK,CAAL,EAAV,CAAmB,WAAnB,GNpkBoD,oBMokBV,CNpkBU,CMokB7E,GAA2E,S;O;KAf/
E,C;+EAmBA,4B;MAIsE,OAAA,KAAM,iBAAQ,SAAR,C;K;IAE5E,0F;MAKI,IAAK,cAAc,CAAf,IAAsB,aAAa,
CAAnC,IAA0C,cAAa,SAAK,OAAL,GAAc,MAAd,IAAb,CAA1C,IAAiF,eAAc,KAAM,OAAN,GAAAe,MAAf,IAA
d,CAArF,C;QACI,OAAO,K;;MAGX,iBAAc,CAAd,UAAsB,MAAtB,U;QACI,IAAI,CAA0B,SAAzB,qBAAK,aAA
a,KAAb,IAAL,CAAyB,EAAO,iBAAAM,cAAc,KAAd,IAAN,CAAP,EAAmC,UAAnC,CAA9B,C;UACI,OAAO,K;;
MAEf,OAAO,I;K;IAGX,mD;MAG+C,0B;QAAA,aAAsB,K;MACjE,OAAA,SAAK,OAAL,GAAc,CAAd,IAA2B,S
AAR,qBAAK,CAAL,CAAAQ,EAAAa,UAAb,C;K;IAE/B,iD;MAG6C,0B;QAAA,aAAsB,K;MAC/D,O
AAA,SAAK,OAAL,GAAc,CAAd,IAAmC,SAAhB,qBAAK,2BAAL,CAAgB,EAAAO,IAAP,EAAa,UAAb,C;K;IAE
vC,qD;MAGyD,0B;QAAA,aAAsB,K;MAC3E,IAAI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QACI,OAAY
,WAAL,SAAK,EAAAW,MAAX,C;;QAEZ,OAAO,6BAAkB,CAAAlB,EAAAqB,MAAArB,EAAA6B,CAA7B,EAAgC,MA
AO,OAAAvC,EAAA+C,UAAA/C,C;K;IAGf,iE;MAG0E,0B;QAAA,aAAsB,K;MAC5F,IAAI,CAAC,UAAD,IAAe,
6BAAf,IAAiC,0BAArC,C;QACI,OAAY,aAAL,SAAK,EAAAW,MAAX,EAAmB,UAAnB,C;;QAEZ,OAAO,6BAAkB
,UAAAlB,EAAA8B,MAAA9B,EAAA8C,CAA7B,EAAgC,MAAO,OAAAvC,EAAA+C,UAAA/C,C;K;IAGf,mD;MAGuD,0
B;QAAA,aAAsB,K;MACzE,IAAI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QACI,OAAY,SAAL,SAAK,EAA
S,MAAT,C;;QAEZ,OAAO,6BAAkB,mBAAS,MAAO,OAAAhB,EAAAllB,EAAA0C,MAAA1C,EAAAsD,CAAAlD,EAAA
2C,OAAA5C,EAAAoE,UAAApE,EAAA+C,C;K;IAMf,wD;MAQ8D,0B;QAAA,aAAsB,K;MAChF,OAAA,SAAK,OA
AL,GAAc,CAAd,IAA2B,SAAR,qBfjnBO,MAAO,KeinBa,SAAK,OfjnBlB,EeinB0B,KAAM,OfjnBhC,CeinBhC,C
;MemnBd,QAAO,C;MACR,OAAO,IAAI,cAAJ,IAA8B,SAAR,qBAAK,CAAL,CAAAQ,EAAAa,UAAb,C;QACI,OAA
K,CAAL,CAAAQ,EAAAlB,MAAAlB,EAAA+C,CAAAlD,EAAAa,UAAb,C;QACI,a;;MAEJ,IAAS,mBAAL,SAAK,EA
AmB,IAAI,CAAAJ,IAAb,EAAnB,CAAL,IAAAnB,EAAwC,mBAAAN,KAAM,EAAmB,IAAI,CAAAJ,IAAb,EAAnB
,CAA5C,C;QACI,a;;MAEJ,OAAAOAAO,8BAAY,CAAAZ,EAAAe,CAAAf,EAAAAkB,W;K;IAG7B,wD;MAQ8D,0B
;QAAA,aAAsB,K;MAChF,OAAA,SAAK,O;MACtB,kBAAAkB,SAAK,O;MACxB,qBfxoBO,MAAO,KewoBa,SAAK
,OfxoBlB,EewoB0B,KAAM,OfxoBhC,CewoBhC,C;Me0oBd,QAAQ,C;MACR,OAAO,IAAI,cAAJ,IAA+C,SAAzB,
qBAAK,IAA+C,SAAAzB,EAAAb,CAAb,GAAAe,CAAAf,EAAAAkB,W;;IAEJ,IAAS,mBAAL,SAAK,EAAmB,IAAI
,CAAAJ,IAAb,EAAnB,CAAL,IAAAnB,EAAwC,mBAAAN,KAAM,EAAmB,IAAI,CAAAJ,IAAb,EAAnB,CAA5C,C
;QACI,a;;MAEJ,OAAAOAAO,8BAAY,CAAAZ,EAAAe,CAAAf,EAAAAkB,W;K;IAGX,8E;MAA2G,oB;QAAA,OAAg
B,K;MAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL,GACV,aAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAs
C,CAAA7B,EAAAqB,MAAArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,EAAb,C;MACR,Q;MACA,OAMA,KAAAb,EAA
kB,I;K;IAIX,8E;MAA2G,oB;QAAA,OAAgB,K;MAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL,GACV,aAAW,g
BAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,EAAAqB,MAAArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,E
AAb,C;MACR,Q;MACA,OAMA,KAAAb,EAAkB,I;K;IAIX,8E;MAA2G,oB;QAAA,OAAgB,K;MAOrG,UAKA,M;M
AXlB,cAAkB,CAAAC,IAAL,GACV,aAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,EAAAqB,MA
AArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,EAAb,C;MACR,Q;MACA,OAMA,KAAAb,EAAkB,I;K;IAMnD,8D;M
AQqD,0B;QAAA,aAAsB,K;MAAG,0B;QAAA,aAAsB,K;MAChF,OAAA,SAAK,OAAL,GAAc,CAAd,IAAmC,SA
Ac,qBAAK,CAAL,CAAAQ,EAAAa,UAAb,C;QACI,OAAO,K;;MAAG,0B;QAAA,aAAsB,K;MAAG,0B;QAAA,aAA
sB,K;MAChF,OAAA,SAAK,O;MACtB,kBAAAkB,SAAK,O;MACxB,qBfxoBO,MAAO,KewoBa,SAAK,OfxoBlB,E
ewoB0B,KAAM,OfxoBhC,CewoBhC,C;Me0oBd,QAAQ,C;MACR,OAAO,IAAI,cAAJ,IAA+C,SAAzB,qBAAK,IA
A+C,SAAAzB,EAAAb,CAAb,GAAAe,CAAAf,EAAAAkB,W;K;IAIX,8E;MAA2G,oB;QAAA,OAAgB,K;MAOrG,U
AKA,M;MAXlB,cAAkB,CAAAC,IAAL,GACV,aAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,E
AAgB,K;MAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL,GACV,aAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,E
AAsC,CAAA7B,EAAAqB,MAAArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,EAAb,C;MAEJ,IAAI,iCAAKb,yBAAtB,
C;QAACkB,yB;QAAAd,OAAc,cAAd,C;QAAAQkB,yB;QAAAR,OAAc,cAAd,C;QAACkB,yB;QAAAR,OAAc,cAAd,
C;UAAAc,yB;QAAAd,OAAc,cAAd,C;QAAAV,C;MAAEJ,IAAAI,iCAAKb,yBAAtB,C;QAACkB,yB;QAAAR,OAAc,
cAAd,C;UAAAc,yB;QAAAd,OAAc,cAAd,C;QAAAV,C;MAAEJ,IAAX,UiCAAKb,yBAAtB,C;cAAwB,aAAAO,rG
;MAAA,oB;QAAA,OAAgB,K;MAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL,GACV,aAAW,gBAAAX,UAAW,
EAAc,CAAAd,IAAb,EAAsC,CAAA7B,EAAAqB,MAAArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,EAAb,C;MAEJ,I
AAI,iCAAKb,yBAAtB,C;QAACkB,yB;QAAAd,OAAc,cAAd,C;UAAAc,yB;QAAAd,OAAc,cAAd,C;QAAAV,C;M
AAEJ,IAAX,UiC1iXH,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAIX,8E;MAA2G,oB;QAAA,OAAgB,K;MAOrG,U
AKA,M;MAXlB,cAAkB,CAAAC,IAAL,GACV,aAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,E
AAgB,K;MAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL,GACV,aAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,E
AAsC,CAAA7B,EAAAqB,MAAArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,EAAb,C;MAAG,0B;QAAA,aAAsB,K;
MAAG,0B;QAAA,aAAsB,K;MAChF,OAAA,SAAK,O;MACtB,kBAAAkB,SAAK,O;MACxB,qBfxoBO,MAAO,K
ewoBa,SAAK,OfxoBlB,EewoB0B,KAAM,OfxoBhC,CewoBhC,C;Me0oBd,QAAQ,C;MACR,OAAO,IAAI,cAAJ,IA
A+C,SAAzB,qBAAK,IAA+C,SAAAzB,EAAAb,CAAb,GAAAe,CAAAf,EAAAAkB,W;K;IAIX,8E;MAA2G,oB;QA
AA,OAAgB,K;MAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL,GACV,aAAW,gBAAAX,UAAW,EAAc,CAAAd,I
AAb,EAAsC,CAAA7B,EAAAqB,MAAArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,EAAb,C;MACR,Q;MACA,OAM
A,KAAAb,EAAkB,I;K;IAIX,8E;MAA2G,oB;QAAA,OAAgB,K;MAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL
,GACV,aAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,E
AAgB,K;MAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL,GACV,aAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,E
AAsC,CAAA7B,EAAAqB,MAAArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,EAAb,C;MAEJ,IAAI,iCAAKb,yBAAtB,
C;QAACkB,yB;QAAAd,OAAc,cAAd,C;UAAAc,yB;QAAAd,OAAc,cAAd,C;QAAAV,C;MAAEJ,IAAX,UiC1iXH,
e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGf,OAAO,E;K;IAIX,8E;MAA2G,oB;QAAA,OAAgB,K;MAOrG,Q;MA
AA,OAAg
B,K;MAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL;MAAXlB,cAAAkB,CAAC,IAAL,GACAC,aAAW,IAAL,GA
CV,aAAW,gBAACV,aAAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,EAAAqB,MAAArB,EAA8B,
KuVhuBhC,cAAX,GAACVU,EAAAc,CAAd,CAADU,GAADU,GACI,aAAW,gBAAAX,UAAW,EAAc,KAAAd,IAAb,E
AAc,CAADU,EAAAmD,C;MAAEJ,IAAAI,iCAAKb,yBAAtB,C;QAACkB,yB;QAAAd,OAAc,cAAd,C;UAAAc,yB;
QAAAd,OAAc,cAAd,C;QAAAV,C;MAAEJ,IAAX,UiCziXH,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAIX,8G;MAG
f,OAAO,E;K;IAIX,8E;MAO2G,oB;QAAA,OAAgB,K;MAOrG,Q;MAAA,OAAgB,K;MAOrG,Q;MAAA,OAAgB,K
;MAMXlB,cAAkB,CAAAC,IAAL;MAAG,0B;MAAAC,aAAW,IAAL;MAAM,aAAsB,K;MAAXlB,cAACV,aAAAW,g
BAAAX,UAAW,EAAc,GACAc,EAAAd,IAAb,EAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,E
AAAqB,MAAArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,EAAb,C;MAEJ,IAAAI,iCAAKb,yBAAtB,C;QAACkB,yB;
QAAAd,OAAc,cAAd,C;UAAAc,yB;QAAAd,OAAc,cAAd,C;QAAAV,C;MAEJ,IAAAI,iCAAKX,yBAAtB,C;cAA
wB,aAAAO,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,mD;MAG+C,0B;QAAA,aAAsB,K;MAAG,aAAsB,K;M
AAXlB,cAACV,aAAAW,gBAAAX,UAAW,EAAc,GACAc,EAAAd,IAAb,EAAW,gBAAAX,UAAW,EAAc,CAAAd,I
AAb,EAAsC,CAAA7B,EAAAqB,MAAArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,EAAb,C;MAEJ,IAAAX,yBAAtB,
C;cAAwB,aAAAO,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAEJ,IAAI,iCAAKXlB,yBAAtB,C;QAAAOrG,UAKA,
M;MAXlB,cAAkB,CAAAC,IAAL,GAAG,aAAsB,K;MAAG,aAAsB,K;MAAXlB,cAACV,aAAAW,gBAAAX,UAAW,
EAAc,GACAc,EAAAd,IAAb,EAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,E
AAA,OAAgB,K;MAOrG,Q;MAAA,OAAgg
B,K;MAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL;MAAXlB,cAAMXlB,cAAc,cACAd,C;MAArB,cAAkB,CAAA
C,IAAL;MAAXlB,cAACV,aAAAW,gBAAAX,UAAW,EAAc,GACAc,EAAAd,IAAb,EAAW,gBAAAX,UAAW,EAAc,
CAAAd,IAAb,EAAsC,CAAA7B,EAAAqB,MAAArB,EAA8B,KuVhuBhC,cAAd,CtVhuBc,EAAb,C;MAEJ,IAAAXlB
yBAAtB,C;cAAwB,aAAAO,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAIX,8E;MAG0E,0B;QAAA,aAAsB,K;MAC
5F,IAAI,cAAAKkB,yBAAtB,C;cAAwB,aAAAO,e;MAMXlB,cAAc,cACAd,CACV,aAAc,gD;C;MAEJ,IAAI,iCAAK
b,yBAAtB,C;QACkB,yB;QAAAd,OAAc,cAAd,C;UAAAc,yB;QAAAd,OAAc,cAAd,C;QAAAV,C;MAAEJ,IAAA
I,iCAAKX,yBAAtB,C;cAAwB,aAAAO,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGX,mD;MAGuD,0B;QAAA,aAA
sB,K;MACzE,IAAI,CAAAXlB,yBAAtB,C;cAAwB,aAAAO,e;MAMXlB,cAAc,cACAd,C;C;MAEJ,IAAI,iCAAKb,y
BAAtB,C;QACkB,yB;QAAAd,OAAc,cAAd,C;UAAAc,yB;QAAAd,OAAc,cAAd,C;QAAAV,C;MAAEJ,IAAAI,iC
AAKX,yBAAtB,C;cAAwB,aAAAO,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAIX,8D;MAQqD,0B;QAAA,aAAsB,K
;MAAG,0B;QAAA,aAAsB,K;MAChF,OAAA,SAAK,OAAL,GAAc,CAAd,IAAmC,SAAc,qBAAK,CAAL,CAAAQ,E
AAAa,UAAb,C;QACI,OAAO,K;;MAAG,0B;QAAA,aAAsB,K;MAAG,0B;QAAA,aAAsB,K;MAChF,OAAA,SAAK
,O;MACtB,kBAAAkB,SAAK,O;MACxB,qBfxoBO,MAAO,KewoBa,SAAK,OfxoBlB,EewoB0B,KAAM,OfxoBhC,C
ewoBhC,C;Me0oBd,QAAQ,C;MACR,OAAO,IAAI,cAAJ,IAA+C,SAAzB,qBAAK,IAA+C,SAAAzB,EAAAb,CAA
b,GAAAe,CAAAf,EAAAAkB,W;K;IAEJ,IAAI,iCAAKb,yBAAtB,C;QACI,OAAg,C;MAAA,OAAgB,K;MAOrG,Q
;MAAA,OAAgB,K;MAMXlB,cAAkB,CAAAC,IAAL;MAAG,0B;MAAAC,aAAW,IAAL;MAAM,aAAsB,K;MAAXlB,
cAACV,aAAAW,gBAAAX,UAAW,EAAc,GACAc,EAAAd,IAAb,EAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAA
sC,CAAA7B,E
AAAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL,GAAG,aAAsB,K;MAAG,aAAsB,K;MAAXlB,cAAkB,CAAAC,I
AAL,GAAG,aAAsB,K;MAAG,aAAsB,K;MAAXlB,cAACV,aAAAW,gBAAAX,UAAW,EAAc,GACAc,EAAAd,IAAb
,EAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,E;MAEJ,IAAI,iCAAKXlB yBAAtB,C;MAAAOrG
,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL,GAAyBAAtB,C;cAAwB,aAAAO,e;MAMXlB,cAAc,cACAd,C;K;IAIX,
yBAAtB,C;cAAwB,aAAAO,e;C;MAEJ,IAAI,iCAAKb,yBAAtB,C;QACkB,yB;QAAAd,OAAc,cAAd,C;UAAAc,y
B;QAAAd,OAAc,cAAd,C;QAAAV,C;MAAEJ,IAAAI,iCAAKX,yBAAtB,C;cAAwB,aAAAO,e;UACI,OAAO,K;;M
AGf,OAAO,E;K;IAIX,8E;MAG0E,0B;QAAA,aAAsB,K;MAC5F,IAAI,CAAAXlB,yBAAtB,C;MAAG,0B;QAAA,aA
AsB,K;MAAG,0B;QAAA,aAAsB,K;MAChF,OAAA,SAAK,O;MACtB,kBAAAkB,SAAK,O;MACxB,qBfxoBO,MA
AO,KewoBa,SAAK,OfxoBlB,EewoB0B,KAAM,OfxoBhC,CewoBhC,C;Me0oBd,QAAQ,C;MACR,OAAO,IAAI,cA
AJ,IAA+C,SAAzB,qBAAK,IAA+C,SAAAzB,EAAAb,CAAb,GAAAe,CAAAf,EAAAAkB,W;K;IAIX,8E;MAG0E,0B
;QAAA,aAAsB,K;MAC5F,IAAI,cAAAKkB,yBAAtB,C;cAAwB,aAAAO,e;MAMXlB,cAAc,cACAd,CACV,aAAc,
gD;C;MAEJ,IAAI,iCAAKb,yBAAtB,C;QACkB,yB;QAAAd,OAAc,cAAd,C;UAAAc,yB;QAAAd,OAAc,cAAd,C
;QAAAV,C;MAAEJ,IAAAI,iCAAKX,yBAAtB,C;cAAwB,aAAAO,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAGf,O
AAO,E;K;IAEJ,IAAI,iCAAKXlB,yBAAtB,C;QAAG,0B;QAAA,aAAsB,K;MAAG,0B;QAAA,aAAsB,K;MAChF,O
AAA,SAAK,OAAL,GAAc,CAAd,IAAmC,SAAc,qBAAK,CAAL,CAAAQ,EAAAa,UAAb,C;QACI,OAAO,K;;MAAG
,0B;QAAA,aAAsB,K;MAAG,0B;QAAA,aAAsB,K;MAAXlB,cAACV,aAAAW,gBAAAX,UAAW,EAAc,GACAc,EA
AAd,IAAb,EAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,E
AAAOrG,UAKA,M;MAXlB,cAAkB,CAAAC,IAAL,GAAG,aAAsB,K;MAAG,aAAsB,K;MAAXlB,cAACV,aAAAW,g
BAAAX,UAAW,EAAc,GACAc,EAAAd,IAAb,EAAW,gBAAAX,UAAW,EAAc,CAAAd,IAAb,EAAsC,CAAA7B,E;M
AEJ,IAAI,iCAAKXlB yBAAtB,C;cAAwB,aAAAO,e;C;MAEJ,IAAAOAAgO,C;MACtB,kBAAAkB,SAAK,O;MA
CxB,qBfxoBO,MAAO,KewoBa,SAAK,OfxoBlB,EewoB0B,KAAM,OfxoBhC,CewoBhC,C;Me0oBd,QAAQ,C;MAC
R,OAAO,IAAI,cAAJ,IAA+C,SAAzB,qBAAK,IAA+C,SAAAzB,EAAAb,CAAb,GAAAe,CAAAf,EAAAAkB,W;K;U
AAc,u

B;UACV,IAAU,cAAN,KAAM,EAAc,CAAd,EAAiB,SAAjB,EAAuB,KAAvB,EAA8B,KAAM,OAApC,EAA4C,UAA5C,CAAV,C;YACI,OAAO,K;;;QAGD,2B;QAAd,OAAc,gBAAd,C;UAAc,2B;UACV,IAAU,kBAAN,KAAM,EAAkB,CAAlB,EAAqB,SAArB,EAA2B,OAA3B,EAAkC,KAAM,OAAxC,EAAgD,UAAhD,CAAV,C;YACI,OAAO,O;;;MAGnB,OAAO,E;K;IAGX,qE;MAUsB,UAAMA,M;MAAflB,IAAI,CAAC,UAAD,IAAe,OAAQ,KAAR,KAAg,B,CAAnC,C;C;QACI,aAAqB,UAAR,OAAQ,C;QACrB,YAAgB,CAAC,IAAL,GAAW,sBAAQ,MAAR,EAAgB,UAAhB,CAAX,GAAX,CAAX,GAA4C,0BAAY,MAAZ,EAAoB,UAApB,C;QACxD,OAAW,QAAQ,CAAZ,GAAe,IAAf,GAAyB,U;AAS,MAAT,C;;MAGpC,cAAkB,CAAC,IAAL,GAAW,aAAW,gBAAX,UAAW,EAAc,CAAd,CAAX,EAA6B,gBAA7B,CAAX,GAAoD,SAAW,eAAX,UAAW,EAAa,2BAAb,CAAX,EAA0C,CAA1C,C;MAElE,IAAI,6BAAJ,C;QACkB,yB;oBAAd,OAAc,cAAd,C;UAAc,yB;UACV,IAAU,kBAAN,KAAM,Ia6sBgC,cb7sBlB,Oa6sBkB,EAAc,CAAd,sBb7sBlB,Oa6sBmD,OAAjC,ab7sBhC,C;C;YACI,gBAAwB,qBAAO,O;O;gBAAP,uB;;;YAC9C,qBAAO,I;;;Ua4sBC,uC;UACA,IAAI,sBAAJ,C;YACI,OAAO,YAAS,cAAT,C;;;QAGD,2B;QAAd,oBAAd,OAAc,gBAAd,C;UAAc,2B;UACV,IAAU,kBAAN,KAAM,Ya4sBgC,SamtBa,ObntBb,W;YAChD,OAAgB,gBAAhB,C;cAAc,yB;cACV,IAAU,kBAAN,KAAM,IamtBgC,kBBbntBlB,SamtBkB,EAAkB,CAAlB,sBbntBlB,SamtBu,OaAArC,abntBhC,C;C;gBACI,gBAAwB,qBAAO,S;S;gBAAP,uB;;;YaAP9C,qBAAO,I;;;UaktBC,2C;UACA,IAAI,wBAAJ,C;YACI,OAAO,YAAS,gBAAT,C;;;MAInB,OAAO,I;K;IAGX,iE;MAY+D,0B;QAAA,aAAkB,C;MAAG,0B;QAAd,QAAd,aAAd,C;C;MAAG,0B;QAAA,aAAkB,K;MACtG,4BAAU,OAAV,EAAmB,UAAnB,EAA+B,UAA/B,EAAAkD,KAAAlD,C;K;IAEJ,mE;MAYmE,0B;QAAA,aAAkB,2B;MAAW,0B;QAAd,QAAd,aAAd,C;K;MAClH,4BAAU,OAAV,EAAmB,UAAnB,EAA+B,EAA+B,UAA/B,EAAAkD,IAAAlD,C;K;IAEJ,kE;MAWgE,0B;QAAA,aAAkB,C;MAAG,0B;QAAd,QAAd,aAAd,C;K;MACrE,cAAkB,8CAAU,OAAV,EAAmB,UAAnB,EAA+B,EAA+B,UAA/B,EAAAkD,IAAAlD,mDAAmE,E;K;IAEvE,sE;MAYoE,0B;QAAA,aAAkB,2B;MAAW,0B;QAAd,QAAd,aAAd,C;K;MACrF,cAAkB,8CAAU,OAAV,EAAmB,UAAnB,EAA+B,EAA+B,UAA/B,EAAAkE,KAAAlE,mDAAmE,E;K;IAKtE,6D;MAM4C,0B;QAAd,QAAd,aAAd,C;K;MAChD,OAAO,8CAAU,OAAV,EAAmB,UAAnB,EAA+B,EAA+B,UAA/B,EAAAkF,OAAAlF,W,cAAc,gCAAAzB,GACI,sBAAAW,mBAAAY,IAAAZ,CAAAX,EAA8B,UAA9B,EAAA8B,G3ME,oBxGujC5E,IwGvjC4E,C9G2MF,EM42BpE,UN52BoE,C;K;IM+2BhG,+D;MAQgD,0B;QAAd,QAAd,aAAd,C;K;MACvF,OAAO,8CAAU,OAAV,EAAmB,UAAnB,EAA+B,EAA+B,UAA/B,EAAAkF,vF,OAAAW,cAAc,gCAAAzB,GACI,sBAAAW,mBAAAY,IAAAZ,CAAAX,EAA4B,UAA5B,EAAAgB,E;MAA4B,EAAAgB,gBAAAA5B,EAAoC,UAApC,EAAA4B,E;MAEpC,cAAkB,0DAAY,OAAZ,EAAqB,UAArB,EAAiC,EAAjC,wBAAiC,UAAjC,EAAAlF,wBAAAkF,GNx3B4F,kBM23B1E,MN33B0E,EM23BlE,UN33BkE,C;K;IM83BhG,iE;MAQgD,0B;QAAd,QAAd,aAAd,C;K;MAC/D,OAAO,8CAAU,OAAV,EAAmB,UAAnB,EAA+B,EAA+B,UAA/B,EAAAlF,/F,OAAAW,cAAc,gCAAAzB,G0BAAe,mBAAAY,IAAZA,C1BA,EAAe,UAAf,EAAAgB,E;MAAe,EAAAgB,gBAAAA5B,EAAoC,UAApC,EAAA4B,E;MAEpC,cAAkB,0DAAY,OAAZ,EAAqB,UAArB,EAAiC,EAAjC,wBAAiC,UAAjC,EAAAlF,wBAAAkE,GNn5B4F,kBMs5B1E,MNt5B0E,EMs5BlE,UNt5BkE,C;K;IMy5BhG,jF;OAAI,yBAAJ,GAAI,sBAAAkF,QAAd,KAAM,UAA4B,UAA5B,EAAAkF,UAA4B,UAA5B,EAAAkF,KAA2C,CAD/C,GAGI,sBAAAkE,sBAAAkF,EAAe,CAAf,EAAkB,EAAlB,EAAqB,CAArB,EAAe,CAAf,EAAAkF,EAAe,CAAf,EAAAkF,EAAkB,CAAlB,EAAAkF,B;MgBAAlB,EAAA0E,EAAA0E5B,AC;K;IAIjD,kD;MAMsD,0B;QAAd,QAAd,aAAd,C;C;MACxE,6BAAAkF,IAAR,UAA2B,UAA3B,C;K;IAIM3C,yE;MACAA,8B;MACAoB,kC;MACAkC,sF;MAAAAgE,gE;MAClC1C,iBAAAqB,E;MACArB,yBAAAwC,WAAX,EAAAS,CAAT,EAAAC,EAAAD;MACAjC,xCAAAuB;MAAlB,cAAkB,eAAAhD,C;C;MAAlB,2B;MAAA,uBAAAkF,GACI,gCAAZ,C;MACA,cAAkB,oBAAlB,C;MAFA3C,yBAAAuB,GAGM,6BAHN,EAAAC,C;MAKApD,yBAAAwC,WAAX,EAAAS,CAAT,EAAAC,EAAAD;MACAjC,xCAAAuB;MAAlB,cAAkB,eAAAhD,C;C;MAAlB,2B;MAAA,oBAAAkF,GACI,gCAAZ,C;MACA,cAAkB,oBAAlB,C;K;;;QAG1B,0EAAEnB,Y;;;MAACI,yBAAAuB,GAAR,UAAkB,CAAAtD,EAAAuB;KA;;MACI,uBAAAkF,KAAkB,CAAAtD,EAAAuB,gBAAAA5B,K;uEAGX,Y;;;M;ACI,IAAAkF,IAAI,IAAmB,mBAAAA,EAAjB,YAAb,C;C;QACI,IAAAkF,iB;QACJ,OAAAkF,mBAAAA5B,K;;;;;A;iDA9C5B,C

O,OAAtB,CAAtF,O;O;K;IAlB9E,mF;MAc0E,0B;QAAA,aAAkB,C;MAAG,0B;QAAA,aAAsB,K;MAAO,qB;QAA
A,QAAa,C;MACrI,wBAAwB,KAAxB,C;MACA,qBAAgC,OAAX,UAAW,C;MAEhC,OAAO,4BAAwB,SAAxB,E
AA8B,UAA9B,EAA0C,KAA1C,EAAiD,sDAAjD,C;K;IAIX,wC;MnBltCI,IAAI,EmBmtCI,SAAS,CnBntCb,CAAJ,
C;QACI,cmBktCkB,8C;QnBjtClB,MAAM,gCAAyB,OAAQ,WAAjC,C;;K;ImBkuCgE,sD;MAAA,qB;QAAE,yCA
AU,EAAV,C;O;K;IAZhF,mE;MAWmE,0B;QAAA,aAAsB,K;MAAO,qB;QAAA,QAAa,C;MACzG,OAAsE,OAAt
E,+BAAkB,UAAlB,UAA2C,UAA3C,EAA+D,KAA/D,CAAsE,EAAI,iCAAJ,C;K;IAE1E,yD;MAWyD,0B;QAAA,
aAAsB,K;MAAO,qB;QAAA,QAAa,C;MAC/F,IAAI,UAAW,OAAX,KAAmB,CAAvB,C;QACI,gBAAgB,WAAW,
CAAX,C;QAChB,IAAI,EAAC,SAh/BuC,YAAU,CAg/BlD,CAAJ,C;UACI,OAAO,mBAAM,SAAN,EAAiB,UAAj
B,EAA6B,KAA7B,C;;;MAI2E,kBAAAb,cAAtE,+BAAkB,UAAlB,UAA2C,UAA3C,EAA+D,KAA/D,CAAsE,C;Mb
8OtE,kBAAM,iBAAa,qCAAwB,EAAxB,CAAb,C;MAuEA,Q;MAAA,6B;MAAb,OAAa,cAAb,C;QAAa,sB;QACT
,WAAY,WatTgF,uBbsTlE,IatTkE,CbsThF,C;;MatThB,ObuTO,W;K;Ia5SmE,wD;MAAA,qB;QAAE,yCAAU,EAA
V,C;O;K;IARhF,qE;MAOiE,0B;QAAA,aAAsB,K;MAAO,qB;QAAA,QAAa,C;MACvG,OAAsE,OAAtE,6BAAkB,
UAAlB,UAA2C,UAA3C,EAA+D,KAA/D,CAAsE,EAAI,mCAAJ,C;K;IAE1E,2D;MAOuD,0B;QAAA,aAAsB,K;
MAAO,qB;QAAA,QAAa,C;MAC7F,IAAI,UAAW,OAAX,KAAmB,CAAvB,C;QACI,OAAO,mBAAoB,oBAAd,
WAAW,CAAX,CAAc,CAApB,EAAgC,UAAhC,EAA4C,KAA5C,C;;MAG+E,kBAAAb,cAAtE,6BAAkB,UAAlB,U
AA2C,UAA3C,EAA+D,KAA/D,CAAsE,C;MbqNtE,kBAAM,iBAAa,qCAAwB,EAAxB,CAAb,C;MAuEA,Q;MA
AA,6B;MAAb,OAAb,cAAb,C;QAAa,sB;QACT,WAAY,Wa7RgF,uBb6RlE,Ia7RkE,Cb6RhF,C;;Ma7RhB,Ob8RO,
W;K;Ia3RX,0D;MASI,wBAAwB,KAAxB,C;MAEA,oBAAoB,C;MACpB,gBAAgB,sBAAQ,SAAR,EAAmB,aAA
nB,EAAkC,UAAlC,C;MAChB,IAAI,cAAa,EAAb,IAAmB,UAAS,CAAhC,C;QACI,OAAO,OAAO,SAAK,WAAZ,
C;;MAGX,gBAAgB,QAAQ,C;MACxB,aAAa,iBAASb,SAAJ,GAAqB,eAAN,KAAM,EAAa,EAAb,CAArB,GAA2
C,EAA7D,C;EAA7D,C;;QAET,MAAO,WA36B6E,8BA26B/D,aA36B+D,EA26BhD,SA36BgD,CAAkC,WA26B/G,C
;QACP,gBAAgB,YAAY,SAAU,OAAtB,C;QAEhB,IAAI,aAAa,MAAAO,KAAAP,MAAAe,QAAAQ,CAAAR,IAAf,
CAAJ,C;UAA2C,K;QAC3C,YAAY,sBAAQ,SAAR,EAAmB,aAAnB,EAAkC,UAAlC,C;C;;MACP,sBAAAa,EAAb,C;
MAET,MAAO,WAl7BiF,8BAk7BnE,aAl7BmE,EAk7BpD,SAl7BoD,CAAkC,WAk7BnH,C;MACP,OAAO,M;K;2EAG
X,mC;MAOmD,qB;QAAA,QAAa,C;MAAG,eAAe,mBAAA,OAAA,KAAM,eAAN,KAAM,eAAN,C;MAU6F,kB;
QAAA,QAAa,C;MAAuB,OAAA,OAAA,KAAM,yBAAAgB,SAAAhB,EAAsB,EAAAT,C;K;+FAEzF,mC;MAU6D,q
B;QAAA,QAAa,C;MAAuB,OAAA,OAAA,KAAM,yBAAAgB,SAAAhB,EAAsB,EAAAT,C;K;IAEvG,iC;MAK2D,mC
AAgB,MAAhB,EAAwB,IAAxB,EAA8B,EAA9B,E;K;IAE3D,0B;MAKgD,OAAAe,UAAf,uBAAAe,C;K;IAqB/D,uD;
MAQsB,Q;MAAPlB,IAAI,iCAAAkB,yBAAAtB,C;MAGhB,IAAI,cAAAS,KAAAb,eAAAU,KAAAT,C;QACI,OAAAY,U
AAAZ,kBAAAQ,KAAAR,C;;MAGX,gBAAgB,WAAW,CAAX,C;MAChB,IAAI,qBAAAgB,SAAAhB,eAAAiB,IAAiC,S
AAAgB,OAAAL,KAAAe,KAAAM,OAAAL,KAAAd,eAAAa,KAAAM,OAAA1C,D;C;QAAkE,OAAAO,K;;MAEvD,Q;
MAAA,6B;MAAb,OAAb,uBAAb,C;QAAa,MAAAlB,B;QAAU,CAAV,gB;QAA2BC,IAAI,iCAAAkB,yBAAAtB,C;QA
AkC,IAAAS,KAAAb,eAAAU,KAAAT,C;UAA2C,OAAAY,UAAAZ,kBAAAQ,KAAAR,C;;MAGrG,OAAAgB,U;K;ID
jC,oBAAb,wBAAa,KAAb,C;MAEA,oBAAAgB,OAAAb,C;MAC;MACpB,gBAAgB,sBAAAgB,OAAAL,OAAAb,C;M
AChB,IAAAkB,iBAAAlB,SAAAP,C;QAAkE,OAAAO,K;;MAEvD,Q;MAAA,6B;MAAb,OAAb,uBAAb,C;QAAa,MA
AAlB,B;QAAU,CAAV,gB;QAA2BC,IAAI,iCAAAkB,yBAAAtB,C;QAAkC,IAAAS,KAAAb,eAAAU,KAAAT,C;UAA2
C,OAAAY,UAAAZ,kBAAAQ,KAAAR,C;;MAGrG,OAAAgB,U;K;ID mBMAAlB,aAAU,CAAV,gB;QACI,IAAAkB,iBA
AAlB,SAAAP,C;UAAkE,OAAAO,K;;MAEvD,Q;MAAA,6B;MAAb,OAAb,uBAAb,C;QAAa,MAAAlB,B;QAAU,CA
AV,gB;QAA2BC,IAAI,iCAAAkB,yBAAAtB,C;QAAkC,IAAAS,KAAAb,eAAAU,KAAAT,C;;MAGrG,OAAAgB,U;K;
IAGX,oC;MAU+C,SAAN,C;aAC3C,M;M;UAD2C,KAA9B,M;UADjB,UAD2C,OAAjC,I;aACV,O;UAF2C,KAA9B,M;
;K;;UACH,M;MAAAgB,gCAAAyB,mDAAAgD,SAAAzE,C;;K;;UAGlB,0C;MAUsD,0B;QAAA,aAAsB,K;MAAO,qB;
QAAA,QAAa,C;MACAgD,M;UAACH,K;;K;;UACd,0C;MAUsD,0B;QAAA,aAAsB,K;MAAO,qB;QAAA,QAAa,C;MA
GAgD,M;UAAAkB,0C;M;UAAAlB,0C;K;;UACd,UAAAgB,0D;O;UAAAhB,0C;M;UAAAgB,0C;U;;K;IAGX,I+Kr8CZ,
sB;MAAA,0BMAII,aAAC+B,e;MAC/B,cAACgC,e;MACh,WAC6B,e;MAC7B,YAC8B,e;MAC9B,eACiC,e;MACjC,YA
C8B,gB;MAC9B,aAC+B,g;MAC/B,cACgC,gB;MAChC,WAC6B,g;MAC7B,YAC8B,gB;MAC9B,aAC+B,gB;MAC/B,
eACiC,gB;MACjC,cACgC,gB;MAChC,cACgC,gB;MAChC,cACgC,Y;MAChC,YAC8B,gB;MAC9B,aAC+B,gB;MAC/
B,aAC+B,uB;MAC/B,cACgC,wB;MAChC,cACgC,sB;M;MACgC,wB;MAChC,cACgC,s;MAChC,cACgC,cA;MAChC,
cACgC,gB;MAChC,cACgC,gB;MAChC,aAC+B,gB;MAC/B,cACgC,mB;MAChC,cACgC,YAC4B,iB;MAC9B,UAC4B,
mB;MAC9B,cACgC,gB;MAChC,cACgC,mB;MAChC,cACgC,sB;MAChC,eACiC,sBAGwC,gB;MAExC,eACiC,uBAGy
C,gB;MAExC,K;;;IA7F7C,kC;MAAA,iC;QAAA,gB;;MAAA,0B;;MAAA,0B;;K;;;;;;2FCuE0C,Y;MAAQ,oCAAa,IA
Ab,C;K;IAiBpB,yC;MAAAqB,kB;K;mIAC3C,Y;MACmD,OAAAA,OAAA,U;K;K;mIACnD,Y;MACmD,OAAAA,OA
AA,U;K;K;mIACnD,Y;MACmD,OAAAA,OAAA,U;K;K;mIACnD,Y;MACmD,OAAAA,OAAA,U;K;K;mIACnD,Y;M
ACmD,OAAAA,OAAA,U;K;K;mIACnD,Y;MACmD,OAAAA,OAAA,Y

AAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACm
D,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;
mIACnD,Y;MACmD,OAAA,UAAM,YAAN,aAAkB,CAAlB,C;K;qIACnD,Y;MACmD,OAAA,UAAM,YAAN,aA
AkB,EAAlB,C;K;gDAEnD,Y;MAMoC,OAAA,UAAM,YAAY,iBAAQ,CAAR,EAAW,UAAM,YAAY,KAA7B,C;
K;;;6EhEjH9D,yB;MAAA,iD;MAAA,4B;QAI4C,kBAAM,SAAN,C;O;KAJ5C,C;+EAMA,yB;MAAA,gD;MAAA,
oC;QAI+D,kBAAM,SAAN,EAAY,MAAZ,C;O;KAJ/D,C;+EAMA,yB;MAAA,oC;MAAA,qC;QAIqE,sBAAM,SA
AN,EAAY,OAAZ,C;O;KAJrE,C;IvIY4B,4B;MAmBxB,gC;MAnB6C,0B;MAW7B,UAEA,MAFA,EAGA,M;MAL
Z,IkIjC8D,IlIiC9D,C;QACI,IAAI,kBAAJ,C;UACQ,mB;UAAJ,IAAI,sEAAsB,SAAtB,EAAJ,C;YAAqC,MAAM,sB
AAiB,YAAF,+CAAf,C;;UAEvC,qB;UAAJ,IAAI,0EAAuB,UAAvB,EAAJ,C;YAAuC,MAAM,sBAAiB,YAAF,gD
AAf,C;UACzC,qB;UAAJ,IAAI,kEAA+B,mBAA/B,CAAJ,C;YAAwD,MAAM,sBAAiB,YAAF,mCAAf,C;;;K;mF
AZlD,Y;MAAQ,kCAAa,CAAb,C;K;+FACU,Y;MAAQ,OAAA,eAAS,QAAT,GAAqB,C;K;qCACVE,Y;MAA0B,Q
ADwB,eAAS,QAAT,GAAqB,CAC7C,MAAqB,C;K;sCAC/C,Y;MAA2B,QAFuB,eAAS,QAAT,GAAqB,CAE5C,
MAAqB,C;K;yFACxB,Y;MAAQ,OAAI,kBAAJ,mF;K;IAahC,8B;MAAA,kC;MACI,YAC4B,gB;MAE5B,gBACgC
,iBAAiB,UAAjB,C;MAChC,4BAAsC,uC;K;mDAEtC,yC;MAGI,2BAAoB,KAApB,EAA2B,UAA3B,EAAuC,UA
AvC,C;K;iJAM8B,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,sD;O;KAAR,C;iJAIC,yB;MAAA,6C;MAAA,iD;
MAAA,4B;QAAQ,sD;O;KAAR,C;iJAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,sD;O;KAAR,C;mJAKF,y
B;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;mJAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,
uD;O;KAAR,C;mJAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;mJAKH,yB;MAAA,6C;MA
AA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;mJAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;m
JAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,uD;O;KAAR,C;yIAKR,yB;MAAA,6C;MAAA,iD;MAAA,4B;
QAAQ,kD;O;KAAR,C;yIAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;yIAUE,yB;MAAA,6C
;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;yIAKH,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,
C;yIAIC,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,kD;O;KAAR,C;yIAUE,yB;MAAA,6C;MAAA,iD;MAAA,4
B;QAAQ,kD;O;KAAR,C;qIAKL,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,gD;O;KAAR,C;qIAIC,yB;MAAA,
6C;MAAA,iD;MAAA,4B;QAAQ,gD;O;KAAR,C;qIAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,gD;O;KA
AR,C;mIAKJ,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,+C;O;KAAR,C;mIAIC,yB;MAAA,6C;MAAA,iD;MA
AA,4B;QAAQ,+C;O;KAAR,C;mIAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,+C;O;KAAR,C;uDAK9B,iB;
MAK+C,OAAAM,WAAN,KAAM,yC;K;uDAErD,iB;MAKgD,OAAAM,aAAN,KAAM,yC;K;uDAEtD,iB;MASkD,O
AAM,aAAN,KAAM,yC;K;wDAGxD,iB;MAKgD,OAAAM,WAAN,KAAM,0C;K;wDAEtD,iB;MAKiD,OAAAM,aA
AN,KAAM,0C;K;wDAEvD,iB;MASmD,OAAAM,aAAN,KAAM,0C;K;wDAGzD,iB;MAKgD,OAAAM,WAAN,KA
AM,0C;K;wDAEtD,iB;MAKiD,OAAAM,aAAN,KAAM,0C;K;wDAEvD,iB;MASmD,OAAAM,aAAN,KAAM,0C;K;
mDAGzD,iB;MAK2C,OAAAM,WAAN,KAAM,qC;K;mDAEjD,iB;MAK4C,OAAAM,aAAN,KAAM,qC;K;mDAElD
,iB;MAS8C,OAAAM,aAAN,KAAM,qC;K;mDAGpD,iB;MAK2C,OAAAM,WAAN,KAAM,qC;K;mDAEjD,iB;MAK
4C,OAAAM,aAAN,KAAM,qC;K;mDAElD,iB;MAS8C,OAAAM,aAAN,KAAM,qC;K;iDAGpD,iB;MAKyC,OAAAM,
WAAN,KAAM,mC;K;iDAE/C,iB;MAK0C,OAAAM,aAAN,KAAM,mC;K;iDAEhD,iB;MAS4C,OAAAM,aAAN,KA
AM,mC;K;gDAGlD,iB;MAKwC,OAAAM,WAAN,KAAM,kC;K;gDAE9C,iB;MAKyC,OAAAM,aAAN,KAAM,kC;K
;gDAE/C,iB;MAS2C,OAAAM,aAAN,KAAM,kC;K;iDAGjD,iB;;QAY4C,OACxC,cAAc,KAAd,EAAiC,KAAjC,C,C;;
QACF,+C;UACE,MAAM,6BAAyB,sCAAmC,KAAnC,OAAzB,EAAsE,CAAtE,C,;;UAHkC,O;;K;0DAM5C,iB;;Q
AMqD,OACjD,cAAc,KAAd,EAAiC,IAAjC,C,C;;QACF,+C;UACE,MAAM,6BAAyB,0CAAuC,KAAvC,OAAzB,EA
A0E,CAA1E,C;;UAH2C,O;;K;uDAMrD,iB;;QAWmD,OAC/C,cAAc,KAAd,EAAiC,IAAjC,C,C;;QACF,+C;UAFiD,
OAG/C,cAAc,KAAd,EAAiC,I,;;UAH+C,O;;K;;;IA/XhE,0C;MAAA,yC;QAAA,wB;;MAAA,kC;K;oCAwYA,Y;M
AC6C,kBAAAY,YAAD,aAAX,EAAS,QAAT,GAAqB,CAyZ1B,C;K;qCAE7C,iB;MAiBW,Q;MATH,IAAA,IAAK,aA
AL,C;QACI,IAAI,KAAM,WAAN,IAAA,IAAK,WAAL,WAAL,KAAkB,KAAM,WAAxB,gBAAoC,CAA7D,C;UACI,OAAO,I;;MAEP,2EAAzB,B,C;;UACI,OAAO,IAAO,OAAO,K;;MAI7B,KA7a0C,eAAS,QAAT,GAAqq
B,CA6a/C,OAAA0B,KA7agB,WAAS,QAAT,GAAqB,CA6a/C,OAAA,D,E;QACI,aAAAa,IAAA,IAAK,QAAAL,K
AAa,KAAAa,KAAAM,QAAAnB,C;;QAAsB,OAAO,O;;K;;;QAEA,mCAAAqB,KAAM,QAAAA,3B,EAAAkC,I
AAK,QAAAvB,C;C;MAb

R,W;K;gDAiBJ,kC;MAGW,Q;MAFP,kBAAkB,cAAc,UAAd,C;MAClB,mBAAmB,eAAa,WAAb,C;MACZ,IAAI,
8EAAsC,mBAAtC,CAAJ,C;QACH,yBAAyB,oBAAa,cAAc,WAAd,CAAb,C;QACzB,uBAAgB,cAAc,YAAd,MA
A8B,kBAA9B,CAAhB,C;;QAEA,wBAAA8B,WAAb,YAAa,yBAASB,UAAtB,CAA9B,C;;MAJJ,W;K;sCAQJ,iB;M
AMuD,wBAAS,KAAD,aAAR,C;K;uCAEvD,iB;MAQe,UAUJ,M;MAXP,IAAI,iBAAJ,C;QAEQ,cAAS,CAAT,C;U
AAc,MAAM,gCAAyB,mEAAzB,C;aACpB,YAAQ,CAAR,C;UAAa,W;;UACL,OAAC,IAAD,a;QAHZ,W;;MAMJ,
IAAI,UAAS,CAAb,C;QAAgB,OAAO,qC;MAEvB,YAAY,Y;MACZ,aAAa,mCAAQ,KAAR,E;MACN,IAAI,kBA
AJ,C;QACH,IAAI,yEAAJ,C;UAEI,yBAAgB,MAAhB,C;;UAEA,IAAI,sCAAS,KAAT,IAAkB,KAAlB,CAAJ,C;Y
ACI,mCAA0B,MAA1B,C;;YAEA,aAAa,cAAc,KAAd,C;YACb,eAAe,eAAQ,cAAc,MAAd,CAAR,C;YACf,mBA
AmB,oCAAS,KAAT,E;YACnB,kBAAkB,iBAAe,cAAc,sCAAW,KAAX,EAAd,CAAf,C;YAClB,IAAI,4CAAe,KA
Af,IAAwB,MAAxB,KAAkC,gBAAgB,YAAhB,gBAAgC,CAAtE,C;cACI,0BAA6B,WAAZ,WAAY,EAAS,8BAA
a,UAAb,CAAT,CAA7B,C;;cAEA,SAAI,YAAM,WAAN,KAAM,CAANb,WAAN,KAAM,CAANb,IAA0B
,CAA9B,GAAiC,yCAAjC,GAA+C,qD;;;;;QAK3D,IAAI,sCAAS,KAAT,IAAkB,KAAlB,CAAJ,C;UACI,0BAAwB,
WAAP,MAAO,EAAS,8BAAa,UAAb,CAAT,CAAxB,C;;UAEA,SAAI,YAAM,WAAN,KAAM,CAANb,WAAN,K
AAM,CAANb,IAA0B,CAA9B,GAAiC,yCAAjC,GAA+C,qD;;;MAvBvD,a;K;uCA4BJ,iB;MASI,eAAqB,W
AAN,KAAM,C;MACrB,IAAa,QAAT,KAAuB,KAA3B,C;QACI,OAAO,mBAAM,QAAN,C;;MAGX,WAAW,kB;
MACX,aAAa,sBAAS,IAAT,IAAiB,K;MAC9B,OAAc,aAAP,MAAO,EAAW,IAAX,C;K;qCAGlB,iB;MAQe,Q;M
ADX,IAAI,UAAS,CAAb,C;QAEQ,sB;UAAgB,gD;aAChB,sB;UAAgB,4D;;UACR,MAAM,gCAAyB,4DAAzB,C;
QAHlB,W;;MAMJ,IAAI,kBAAJ,C;QACI,OAAO,gBAAgB,qCAAQ,KAAR,EAAhB,C;;QAEP,IAAI,iBAAJ,C;UA
CI,OAAO,mBAAa,WAAN,KAAM,CAAb,C;QAEX,aAAa,qCAAQ,KAAR,E;QAEb,IAAI,kEAAgC,mBAAhC,CA
AJ,C;UACI,UAAU,cAAc,sBAAS,oCAAS,KAAT,EAAT,CAAd,0BAA0C,KAAA1C,KAA1C,E;UACV,OAAO,gBAAgB,cA
Ac,MAAd,MAAwB,GAAAxB,CAAhB,C;;UAEX,OAAO,iBAAAiB,MAAjB,C;;K;qCAIf,iB;MAOI,eAAqB,WAAN,K
AAM,C;MACrB,IAAa,QAAT,KAAuB,KAAvB,IAAgC,aAAY,CAAhD,C;QACI,OAAO,iBAAAI,QAAJ,C;;MAGX,
WAAW,kB;MACX,aAAa,sBAAS,IAAT,IAAiB,K;MAC9B,OAAc,aAAP,MAAO,EAAW,IAAX,C;K;oCAGlB,iB;
MAEI,kBAAkB,SAAM,IAAK,cAAX,EAAwB,KAAM,cAA9B,C;MAClB,OAAO,IAAK,kBAAS,WAAT,CAAL,G
AA6B,KAAM,kBAAS,WAAT,C;K;oCAG9C,Y;MACmC,oCAAW,C;K;oCAE9C,Y;MACmC,oCAAW,C;K;oCAE
9C,Y;MACmC,+BAAY,yCAAS,WAArB,KAAiC,wBAAY,qDAAa,WAAzB,C;K;kCAEpE,Y;MACiC,QAAC,iB;K
;yFAGC,Y;MAAQ,OAAI,iBAAJ,GAAmb,IAAD,aAAlB,GAA6B,I;K;yCAExE,iB;MACI,kBAAkB,IAAK,WAAL,
KAAkB,KAAM,WAAxB,C;MAClB,IAAI,yBAAc,CAAd,IAAmB,CAAAA,WAAY,QAAAZ,GAAAwB,CAAAxB,MAA6
B,CAApD,C;QAACI,OAAO,IAAAK,WAAAL,KAAkB,KAAM,WAAxB,C;;MAEZ,QAAAQ,CA1lBsC,eAAS,QAAT,GA
AqB,CA0lB3C,K;KA1lBBa,KAA11Ba,WAAS,QAAT,GAAqB,CA0lB3C,D;K;MACR,OAAAW,iBAAAJ,GAAAkB,CAAAC,
AAD,IAAAlB,GAAA0B,C;K;uHAMrC,kB;MAeI,OAAAO,OAAO,gBAAAP,EAAAoB,mBAAApB,EAAAoC,qBAAApC,EA
AsD,qBAAAtD,EAAAwE,yBAAAxE,EAAAzC,C;K;uHAGX,kB;MAcI,OAAAO,OAAO,iBAAAP,EAAAqB,qBAAArB,EA
AAuC,qBAAAvC,EAAyD,qBAAAzD,yBAAAzE,C;K;uHAGX,
kB;MAYI,OAAAO,OAAO,mBAAAP,EAAAuB,qBAAAvB,EAAAyC,C;K;0FAKP,Y;MAAQ,OAAI,iBAAAJ,GAAAkB,
CAAAlB,IAAAc,C;K;4FAIrD,Y;MAAQ,OAAI,iBAAAJ,GAAAkB,CAAAlB,IAAAc,+CAAAiB,EAAAjB,EAAAq
B,Q;K;4FAIvD,Y;MAAQ,OAAI,iBAAAJ,GAAAkB,CAAAlB,IAAAc,+CAAAiB,EAAAjB,EAAAqB,Q;K;gGAIvD,Y;MAC
I,sB;QADI,OACY,C;K;WAChB,wB;QAFI,OAEY,cAAc,wCAAQ,IAAR,EAAd,CAA6B,Q;K;;QAFzC,OAGK,OAGK,wCAAQ,
UAAR,EAAuB,Q;K;K;0CAMxC,gB;MAQiB,UAAN,M;MAAM,sB;MACT,iBAAA,yCAAS,WAAT,E;;WACA,iBAAAiB,q
DAAAa,WAAAb,EAAAwB,WAAb,E;;;QAGA,+BAAoB,YAApB,EAAA2B,kBAAA3B,3BAAAwC,C;K;kFAKhD,Y;MAAQ,O
AGK,C;K;4FAIvD,Y;MAAQ,OAAI,iBAAAJ,GAAAkB,CAAAlB,IAAAc,6DAAAiB,EAAAjB,EAAAqB,Q;K;gGAIvD,Y;MAC
I,OAAI,iBAAAJ,mE;K;mFAAKhD,Y;MAAQ,mE;K;qFAKP,Y;MAAQ,mE;K;0FAKN,Y;MAAQ,mE;K;yFAAKT,Y;MAA
Q,oE;K;uFAAST,Y;MAAQ,2D;K;wFAAQR,Y;MAAQ,4D;K;0FAAQR,Y;MAAS,8D;K;0FAAQR,Y;MAAS,8D;K;+FAA
QR,Y;MACI,OAAA,WAAW,uBAAAgB,eAAApB,GAAA2B,YAAAhB,GAAA2C,4D;K;+FAAKT,Y;MAA
Q,mE;K;8FAAYR,Y;MAEW,Q;MADP,YAAY,Y;MACrB,OAAA,gBAAAP,CAAAe,YAAAf,EAAAuB,yB;;WACf,4C;;;QAC
A,qBAAAc,qBAAAc,C;;;QACQ,+C;;;QAIR,OAGK,OAGK,2CAAQ,UAAR,EAAuB,Q;K;K;2CACY,8B;K;4CAEvC,Y;MAS
uC,8B;K;kCAExC,Y;MAAKkBwC,Q;MAAAA,sB;K;MACpC,qBAAc,KAAA
d,C;MAJZ,W;K;MACR,2CAAU,Y;MASuC,8B;K;4CAEvC,Y;MAAmuC,wBAAAgB,CAAAoB,8DAAAiB,eAAAc,EAAAc,EAA
AkB,oBAAAlB,EAAAwB,qBAAAxB,EAAyD,qBAAAzD,EAAAwE,qBAAA,qDAAAxE,EAAAzC,C;K;K;4CAIX,iB;MAA
I,kBAAAJ,GAAC;K;4CACN,iB;MAAI,kBAAAJ,GAAC;K;oCAKL,gB;MAAKA
d,C;MAJZ,W;K;K;oCAKL,gB;MAAKA
d,C;MAJZ,W;K;

AH8B,OAGL,W;;QAErB,iBAAiB,iB;Q8HzhBF,gBAAhB,sB;Q9H2hBK,e;UAAgB,yBAAO,EAAP,C;QACF,YAA
d,kB;QA9RD,WAAO,iB;QAAP,YAAoB,oB;QAApB,cAAoC,sB;QAApC,cAAsD,sB;QAAtD,kBAAwE,0B;QAsS/
D,0B;QAPJ,cAAc,iB;QACd,eAAe,UAAS,C;QACxB,iBAAiB,YAAW,C;QAC5B,iBAAiB,YAAW,CAAX,IAAgB,
gBAAe,C;QAChD,iBAAiB,C;QACjB,IAAI,OAAJ,C;UACI,yBAAO,IAAP,CAAa,gBAAO,GAAP,C;UACb,+B;;Q
AEJ,IAAI,aAAa,YAAY,cAAc,UAA1B,CAAb,CAAJ,C;UACI,IAAI,6DAAe,CAAnB,C;YAAsB,yBAAO,EAAP,C;
UACtB,yBAAO,KAAP,CAAc,gBAAO,GAAP,C;;QAElB,IAAI,eAAe,eAAe,YAAY,OAA3B,CAAf,CAAJ,C;UACI
,IAAI,6DAAe,CAAnB,C;YAAsB,yBAAO,EAAP,C;UACtB,yBAAO,OAAP,CAAgB,gBAAO,GAAP,C;;QAEpB,I
AAI,UAAJ,C;UACI,IAAI,6DAAe,CAAnB,C;YAAsB,yBAAO,EAAP,C;UAElB,gBAAW,CAAX,IAAgB,OAAhB,I
AA2B,QAA3B,IAAuC,UAAvC,C;YACI,mCAAiB,OAAjB,EAA0B,WAA1B,EAAuC,CAAvC,EAA0C,GAA1C,E
AA2D,KAA3D,C;eACJ,mBAAe,OAAf,C;YACI,mCAAiB,cAAc,OAAd,IAAjB,EAA0C,cAAc,OAAxD,EAAmE,C
AAnE,EAAsE,IAAtE,EAAwF,KAAxF,C;eACJ,mBAAe,IAAf,C;YACI,mCAAiB,cAAc,IAAd,IAAjB,EAAsC,cAA
c,IAApD,EAA2D,CAA3D,EAA8D,IAA9D,EAAgF,KAAhF,C;;YAEA,yBAAO,WAAP,CAAoB,gBAAO,IAAP,C;;
QAGhC,IAAI,cAAc,aAAa,CAA/B,C;UAAkC,yBAAO,CAAP,EAAU,EAAV,CAAe,gBAAO,EAAP,C;QAvC/B,O
Ox1B3B,SuHoUqC,W;;K;4C9HikB5C,yE;MACI,yBAAO,KAAP,C;MACA,IAAI,eAAc,CAAlB,C;QACI,yBAAO,
EAAP,C;QACA,iBAAuC,WAAtB,UAAW,WAAW,EAAS,cAAT,EAAyB,EAAzB,C;QACR,sB;;UsB5zBzB,Q;UA
AA,OAAQ,WAAR,etB4zBc,UsB5zBd,CAAQ,CAAR,W;UAAd,OAAc,cAAd,C;YAAc,uB;UAACV,ItB2zBiD,UsB3
zBnC,YtB2zBU,UsB3zBV,YAAK,KAAL,EtB2zBmC,MAAM,EsB3zBvD,C;cACI,qBAAO,K;cAAP,uB;;;;UAGR,q
BAAO,E;;;;OtBuzBC,oBAAoB,qBAAuC,CAAvC,I;QAEhB,qBAAuD,WAAjC,UAAW,WAAW,EAAS,cAAT,E
AAyB,EAAzB,CAAsB,gBAAO,KAAP,C;UAAmC,8B
AAY,UAAZ,EAAwB,CAAxB,EAAA3B,C;;UAC3B,8BAAY,UAAZ,EAAwB,CAAxB,EAAA2B,CAAC,CAA
C,gBAAgB,CAAhB,IAAD,IAAsB,CAAAtB,IAAD,IAA4B,CAA5B,IAA3B,C;;MAGhB,yBAAO,IAAP,C;K;0CAGJ,
0B;MAgBwC,wB;QAAA,WAAgB,C;MIn9BxD,IAAI,EJo9BQ,YAAY,CIp9BpB,CAAJ,C;QACI,cJm9ByB,oD;QIl
9BzB,MAAM,gCAAyB,OAAQ,WAAjC,C;;MJm9BN,aAAa,sBAAAS,IAAT,C;MACb,IAAW,WAAP,MAAO,CAA
X,C;QAAyB,OAAAyB,OAAO,sBAAAtB,IAAP,C;K;qCAI3E,Y;M8HvmBuB,gBAAhB,sB;M9HqnBH,IAAI,iBAAJ,C
;QAAkB,yBAAO,EAAP,C;MAClB,yBAAO,IAAP,C;MAC4B,YAAd,kB;MAxWP,YAAO,kB;MAAP,cAAqB,sB;M
AArB,cAAuC,sB;MAAvC,kBAAyD,0B;MAyW5D,cACY,K;MACZ,IAAI,iBAAJ,C;QAEI,wB;;MAEJ,eAAe,oB;
MACf,iBAAiB,YAAW,CAAX,IAAgB,gBAAe,C;MAChD,iBAAiB,YAAW,CAAX,KAAiB,cAAc,QAA/B,C;MACjB,
yBAAO,OAAP,CAAc,gBAAO,EAAP,C;;MAElB,IAAI,UAAJ,C;QACI,yBAAO,OAAP,CAAgB,gBAAO,EAAP,C;;
MAEpB,IAAI,eAAe,CAAC,QAAD,IAAa,CAAC,UAA7B,CAAJ,C;QACI,mCAAiB,OAAjB,EAAA0B,EAAAuC,CAA
vC,EAAA0C,EAAA3D,C;;MAApBuB,OOx7B5B,SuHoUqC,W;K;;;;;kC9H5YhD,Y;MAAA,c;MAuBiD,2D;MAvBjD,
a;K;gCAAA,iB;MAAA,2IAuBiD,gDAvBjD,G;K;IA8hCA,qC;MAIW,Q;MAAA,IAAI,6DAAJ,C;QACH,uBAAAgB,4
BAAiC,oBAAAL,SAAAK,CAAjC,EAAA2C,IAAA3C,C;;QAES,oBAAAAT,8BAAAS,EAAAW,C;QAEJ,yBAAO,O
AAP,8BAAAS,EAAAoB,C;;MAHb,W;K;IAMJ,uC;MAIW,Q;MAAA,IAAI,6DAAJ,C;QACH,uBAAAjB,4BAAA,KA
AA,aAAAoB,C;;QAES,oBAAAAiB,8BAAA,iBAAAwB,C;;MAHb,W;K;;K;IAIf,uC;MAaW,Q;MAHP,gBAAAgB,oB
AAAoB,SAAApB,EAAA0B,EAAA0B,C;MAGO,IAAI,CJuiCIB,IAAAI,CJwiCI,CAAAW,QAAAV,SAAAU,CIxiCnB,
C;QACI,cJuiCiB,cJuiCV,YAAAsB,SAAAtB,EAAAsB,C;;MJuiCf,IAAAsEAqB,SAAArB,EAAArB,C;QACI,sEAAA
qB,SAAArB,EAAA3B,C;;MJuiC4B,YAAd,kB;MAxWP,YAAO,kB;MAAP,cAAqB,sB;MAArB,cAAuC,sB;MAAvC,
kBAAyD,0B;MAyW5D,cAAY,aAAAwE,EAAAkC,C;MAA3B,MAAA3B,C;;MAJJ,W;K;IAJJ,W;K;IAgBUB,oC;MAA
Q,oE;K;IAAR,2EAAArB,EAAAsB,C;;MAAAJ,W;K;IAIxE,yC;MAAAMAAA,aAAAa,KAAAM,O;MAACnB,IAAA
I,WAAAU,CAAAd,C;QAAAiB,MAAAM,gCAAAM,OAAAJ,WAAAN,C;;MAACvE,aAAAa,sBAAAS,IAAb,C;MAC
tB,IAAW,WAAAiB,MAAA,CAAX,C;QAAyB,aAAAc,EAAAgB,C;;MAAC,yBAAAd,MAAAC,gCAAAa,EAAAN
,C;MAE9B,cAAAc,EAAAE,C;QAACC,qBAAAqD,MAAAY,eAAAzB,C;;MAAChB,W;K;WACV,qBAAAgB,8BAAA,
cAAAsB,C;;MAAAJ,W;K;IAIxE,yC;MAAAMAAAA,aAAAa,KAAAM,O;MACA,IAAI,iBAAAU,CAAJ,C;QACW,mB
AAAwD,iBAAAzB,C;;MAAhB,W;K;IAgBW,oC;MAAQ,oE;K;IAAR,2EAAArB,EAAAsB,C;;MAAAJ,W;K;IAJJ,W;K
;;K;IAIf,8C;MAAAMAAAA,aAAAa,KAAAM,O;MACA,IAAI,iBAAAU,CAAJ,C;QACW,oBAAAuD,iBAAAyB,C;;MA
AhB,W;K;;MAGkB,YAAA3D,EAAAE,C;MACR,sB;;QAAA,OAAAFO,EAAArB,8BAAAsB,gBAAAyD,EAAAE,C;;K;
IAOZ,0B;MAAA,c;MCkBuB,qB;MAAA,oB;MAAA,mB;MAAA,gB;MAAA,kB;MAAA,qB;MAAA,oB;MAAA,wB;MA
AA,wB;MAAA,kB;MAAA,yB;MAAA,yB;MAAA,4B;MDzBvB,wB;K;0FClBA,Y;MAAA,4B;MAAA,eCkBuB,WDlB
vB,M;K;gGCkBA,Y;MAAA,4B;MAAA,eCAuB,WDAvB,M;K;IEKmB,oC;MAIf,qBAAgB,6BAAhB,EAA+C,IAA/C,E
AAqD,oBAArD,C;MACA,oBAAoB,iBAApB,EAA2C,oBAA3C,C;K;kGAGJ,Y;MAAA,4BAAa,eAAb,M;K;0FAG
A,Y;MAAA,qBAAa,WAAb,M;K;IEKmB,oC;MAIf,iE;MAA6B,gB;MCkBL,wBDAoB,iBCApB,EDlBf,IAAF,EAAkB,
oBAAlB,C;MAKR,Q;MAAA,IAAI,6DAAJ,C;QACH,uBAAAoB,4BAAA,KAAA,aAAAoB,C;;QAES,oBAAAAiB,8BA
AA,iBAAAwB,C;;MAHb,W;K;IAMJ,mC;MAOuB,Q;MAAA,sB;QAAA,W;MCAI,YDAY,CCAZ,I;QDAJ,W;;QAAA,W;
K;;K;IAIf,qC;MAAMAAAA,W;MACA,IAAI,EAAEsB,eAAF,CAAJ,C;QAA0B,W;;MCkBL,YDAJ,CCAI,I;QDAA,W;;
MAAA,W;K;;K;IAIf,qC;MAyB+C,wB;QAAA,WAAgB,C;MGg2BjD,kB;MHn1BP,Q;MAAA,6B;MA0BmB,gB;MA
pBf,sB;;QAAA,OAAAFO,EAAAD,8BAAAuE,gBAAAyD,EAAAkC,C;;MDlBO,W;K;sFEKmB,Y;MAAA,4BAAa,eA
Ab,M;K;4FAGA,Y;MAAA,4BAAa,eAAb,M;K;;K;;MAGkB,wBDlBf,IAAF,EAAkB,oBAAlB,C;MH2RyB,oBGzRI,iB
HyRJ,EGzRW,oBHyRX,C;MDlBO,W;K;IEKmB,oC;MAIf,qBAAgB,6BAAhB,EAA+C,IAA/C,EAAqD,oBAArD,C;K
;;K;;MAGkB,wBDlBf,IAAF,EAAkB,oBAAlB,C;K;;K;;K;IAIf,qC;MAQI,IAAI,6BAAJ,C;QACI,yBAAO,oBAAP,
C;K;;K;IAIf,qC;MAyB+C,wB;QAAA,WAAgB,C;MGg2BjD,kB;MHn1BP,Q;MAAA,6B;MA0BmB,gB;MApBf,sB;;
QAAA,OAAAFO,EAAAD,8BAAAuE,gBAAAyD,EAAAkC,C;;MDlBO,W;K;;K;;MAGkB,wBDlBf,IAAF,EAAkB,oBAA
lB,C;K;;K;;K;

AAf,C;UAAuB,MAAM,+B;QAC7B,sBAAsB,K;QACtB,sBAAsB,K;QACtB,eAA8B,I;QAC9B,OAAO,QAAQ,MA
Af,C;UACI,IAAI,iBAAM,KAAN,MAAgB,EAApB,C;YACI,IAAI,mBAAmB,mCAAW,MAAlC,C;cAA0C,MAA
M,+B;YAChD,kBAAkB,I;YAClB,Q;;UAEkB,iBAAe,K;UA+EjD,QAHgC,U;UAIhC,Y;YAAO,eAhFqB,KAgFjB,
O;YAAJ,S;cAAc,SAAU,YAhFH,KAgFG,YAAK,CAAL,E;cAAV,OAhFqC,CAAM,kBAAK,EAAL,CAAN,qCAA
kB,2C;;;;YAgFnC,a;;UAhF7B,gBAAAgB,KiBvlCgE,WjBmqClF,UiBnqCkF,EjBwqCrF,CiBxqCqF,C;UjBwlChF,IA
AI,SuBrhCgC,YAAU,CvBqhC9C,C;YAAyB,MAAM,+B;UAC/B,gBAAS,SAAU,OAAnb,I;UACqB,cAAU,K;UsB
zrCpC,U;UAAAA,IAAI,WAAS,CAAT,IAAc,WAAS,iBtByrCP,KsBzrCO,CAA3B,C;YAAA,StByrCoB,KsBzrCkB,
YAAI,OAAJ,C;;YtByrCO,MAAM,gCAAyB,qCAAzB,C;;UAA9C,qB;UAACA,qB;UAACA,WAAW,sBAAsB,QAAtB
,EAAgC,eAAhC,C;UACX,IAAI,YAAY,IAAZ,IAAoB,yBAAY,IAAZ,MAAxB,C;YAA0C,MAAM,gCAAyB,yCA
AzB,C;UAChD,WAAW,I;UACX,eAAyB,WAAV,SAAU,EAAQ,EAAR,C;UACzB,IAAI,+CAAgC,WAAW,CAA/
C,C;YACI,YAAY,SiBjmCgE,WjBimC5C,CiBjmC4C,EjBimCzC,QiBjmCyC,C;YjBkmC5E,4BAA2C,aAAjC,0BA
A0B,KAA1B,CAAiC,EAAAW,IAAX,CAA3C,C;YACA,4BAAAmD,aAAX,SAA9B,SiBtmCmD,WjBsmC/B,QiBtmC
+B,CjBsmCrB,CAAW,EAAW,IAAX,CAAnD,C;;YAEA,4BAA+C,aAArC,0BAA0B,KAA1B,CAAqC,EAAAW,IAA
X,CAA/C,C;;;aAIZ,c;QACI,MAAM,+B;;QACV,IAAM,cAAN,KAAM,EAAc,KAAd,EAAqb,cAArb,EAAqC,CA
ArC,EQ/xCH,MAAO,KR+xCmD,SAAS,KAAT,IQ/xCnD,ER+xCmE,cAAe,OQ/xClF,CR+xCJ,EAA4G,IAA5G,CA
AN,C;UACI,SAAS,gCAAS,S;;UAIlB,iBAAA8B,I;UAC9B,iBAAAiB,K;UAACjB,kBAAAkB,CAAC,O;UACnB,IAAI,W
AAW,iBAAM,KAAN,MAAgB,EAA3B,IAAwC,QAAN,KAAM,CAAN,KAAgB,EAAAtD,C;YACI,cAAc,I;YACd,I
AAI,oCAAW,uBAAX,EAAW,MAAX,CAAJ,C;cAAyB,MAAM,gCAAyB,eAAzB,C;;UAEnC,OAAO,QAAQ,MA
Af,C;YACI,IAAI,cAAc,WAAlB,C;cA8CZ,UA7CwC,K;cA8CxC,Y;gBAAO,mBA9CiB,KA8Cb,O;gBAAJ,W;kBA
Ac,SA9C4B,UA8ClB,YA9CP,KA8CO,GAAL,E;kBAAK,GAAAL,EA9CCd,iB;;gcA9C7B,kBAAAgB,K;;cA9C7B,gBA
8Ca,I;;UA9Cb,gBAAAgB,KiB5nCgE,WjBmqClF,YiBnqCkF,EjBwqCrF,GiBxqCqF,C;YjB6nChF,IAAI,WuB
1jCgC,YAAU,CvB0jC9C,C;YACI,cAAc,I;YACd,I;cAAI,oCAAW,uBAAX,EAAW,MAAX,CAAJ,C;cAAyB,MAAM,+
B;YACT,gBAAS,SAAU,O;;YACqB,cAAU,K;YACvB,cAAU,K;YAAK,GAAAL,E;gBAAAgB,W;kBA
BAAV,SAAxCoC,CAAM,kBAAK,EAAL,CAAN,qCAAkB,GAAAL,CAAN,mC;;;;cAwChB,iB;;YAxC7B,eAAe,KiB/nCiE,Wj
BmqClF,YiBnqCkF,EjBwqCrF,GiBxqCqF,C;YjBgqChF,gBAAAS,QAAS,OAAlB,I;YACA,aAAAW,wBAAAW,QAAxB
,C;YACX,IAAA,cAAc,WAAd,IAA6B,2BAAY,IAAZ,MAA7B,C;cAA0C,MAAM,gCAAyB,yCAAzB,C;YAChD,aAAAW,M;Y
ACX,iBAAAW,WAAV,WAAU,EAAQ,EAAR,C;YACZ,IAAA,cAAc,WAAd,IAA6B,kCAAf,WAAU,E;cAA0B,MAAM,gC
AAA,4BAAAmD,aAAX,SAA9B,WiB3oCmD,WjB2oC/B,QiB3oC+B,CjB2oCrB,CAAW,EAAW,IAAX,CAAnD,C;c
ACA,4BAAAmD,aAAX,SAA9B,WiB3oCmD,WjB2oC/B,QiB3oC+B,CjB2oCrB,CAAW,EAAW,IAAX,CAAnD,C;;
cACA,IAAI,QAAQ,MAAZ,C;YACI,gBAAAoB,MAAM,gCAAAyB,mCAAzB,C;;cAAE1B,4BAAA6B,aAAT,OAAV,WAAU,C
AAS,EAAAW,IAAX,CAA7B,C;;;;;MAKhB,OAAW,UAAJ,GAAiB,MAAD,aAAhB,GAA6B,M;K;IAAIxC,0C;MAC
I,aAAa,KAAM,O;MACnB,iBAAAiB,C;MACjB,IAAI,SAAS,CAAT,IAAc,YAAY,IAAZ,mBAAM,CAAN,EAAlB,C
;QAAoC,+B;;MAChC,YAAAC,YAAC,SAAS,UAAT,IAAD,IAAwB,E;MAAxB,S;QAA4D,gBAA7B,yBAAkb,iBAAAN,KA
AM,CAAlB,C;QAA6B,c;;UU4ThD,U;UADhB,IAAI,wCAAsB,mBAAA1B,C;YAAAqC,aAAAO,I;YAAAP,e;;UACrB,6B
;UAAhB,OAAAgB,gBAAhB,C;YAAgB,2B;YAAM,IAAI,CV5T4C,aAAa,KU4Tn2,EV5Ti
C,EU4ThD,C;cAAyB,aAAAO,K;cAAP,e;;;UAAA,aAAAO,I;;;QV7TyD,iB;;MAAhE,S;QAEI,OAAW,iBAAAM,CAAN
,MAAAY,EAAhB,sD;;MAGX,OAAAiB,WAAN,KAAM,EAAAgB,GAAX,OAAAiB,WAAN,KAAM,EAAAY,GAAX,CAAAY,C;
UAAR,QAAN,KAAM,C;K;IAKxE,0D;MAII,QAHgC,U;MAIhC,OAAAO,IAAAI,gBAAAJ,I;MAAJq
AJqC,SAIvB,CAAU,iCAAK,CAAL,EAAV,C;;MAAAyC,OiBnqCgE,WjBmqC5C,CiBmqC4C,EjBwqCrF,CiBxqCqF,C;
UAAR,Q;K;IjBqqClB,IjBqqCqC,G;qD;MACI,QAAQ,U;MACR,OAAO,IAAI,gBAAAJ,IAAc,UAAU,iCAAK,CAAL,CA
AL,EAAAV,CAAARB,C;MAAAyC,O;a;;MACzC,OAAO,C;K;;;;;IAmBX,8B;MAA+C,qCAAAO,OAAAR,E;K;IAC/C,IAC
g0B,2CAAAS,OAAAR,E;K;IAAgZ,IACC/C,/C,+B;MAAg
D,2CAAAS,OAAT,E;K;IAAEhD,jD,wC;MAAmD,oBAAAU,uB;UAAAM,iBAAA,cAAAc,KAAM,CAAlB,C;UAAAd,
e;;UU4ThD,U;UADhB,IAAI,wCAAsB,mBAAA1B,C;YAAAqC,aAAAO,I;YAAAP,e;;UAAA,MAAAyB,E;;aACC,K;Y
AGR,4C;MACI,IAAI,kEAAAgC,mBAAAhC,CAAAJ,C;K;IAAAA,OAACi,gBAAAgB,cAAc,MAAAd,CAAAhB,C;;QA
DJ,OAGIiBAAiB,cAAc,KAAAd,CAAAjB,C;;K;IAGR,4C;MACIiBAAiB,kEAAgC,mBAAAhC,CAAAJ,CAAAJ,C;;QA
BAAgB,cAAc,MAAAd,CAAAhB,C;;QADJ,OAGI,iBAAiB,iBAAAwB,WAAP,MAAAO,yBAAsB,UAAAtB,CAAAxB,C;;
K;IwMl3C

R,8B;MAEgD,QAAM,SAAN,M;aAC5C,a;UAD4C,OAChB,I;aAC5B,c;UAF4C,OAEf,I;aAC7B,c;UAH4C,OAGf,I;
aAC7B,S;UAJ4C,OAIpB,G;aACxB,S;UAL4C,OAKpB,G;aACxB,O;UAN4C,OAMtB,G;aACtB,M;UAP4C,OAOv
B,G;;UpMuEwB,MAAM,6BAA8B,CoMtEnE,mBAAgB,SpMsEmD,YAA9B,C;;K;IoMnEvD,4C;MACwE,QAAM,
SAAN,C;aACpE,I;UADoE,6C;aAEpE,I;UAFoE,8C;aAGpE,I;UAHoE,8C;aAIpE,G;aAJoE,yC;aAKpE,G;UALoE,y
C;aAMpE,G;UANoE,uC;aAOpE,G;UAPoE,sC;;UAQ5D,MAAM,gCAAyB,uCAAoC,SAA7D,C;;K;IAGlB,yD;MA
GQ,KAAC,eAAD,C;QAEQ,IADE,OACF,Q;UAHZ,sC;;UAIoB,MAAM,gCAAyB,4EAAqD,OAArD,CAAzB,C;;Q
AIlB,QAAM,OAAN,C;eACI,E;YATZ,uC;eAUY,E;YAVZ,yC;eAWY,E;YAXZ,yC;;YAYoB,MAAM,gCAAyB,yD
AAkC,OAAlC,CAAzB,C;;;K;IC5F9B,4B;K;;;MC4BI,kC;;IAXA,gC;MAAA,oC;MAM0B,2BAAc,iC;K;;8CACpC,Y
;MAAkC,OAAA,iCAAoB,W;K;6CADhC,Y;MAAA,yC;K;;;IAN1B,4C;MAAA,2C;QAAA,0B;;MAAA,oC;K;IAW
A,gC;MAAA,oC;K;;;IAAA,4C;MAAA,2C;QAAA,0B;;MAAA,oC;K;;IAKJ,oB;K;qCAcI,oB;MAK8D,4BAAiB,IA
AjB,EAAuB,QAAvB,C;K;sCAE9D,oB;MAK+D,wBAAM,QAAD,aAAL,C;K;sCAG/D,Y;MAMqC,QAAC,iBAAAa,
a;K;yCAEnD,Y;MAMwC,OAAA,iBAAAa,a;K;;4EAIzD,yB;MAAA,4C;MAAA,mC;QAQuE,MAAM,WAAM,0BA
AN,C;O;KAR7E,C;mFAUA,yB;MAAA,4C;MAAA,mC;QAQsE,MAAM,WAAM,0BAAN,C;O;KAR5E,C;IAY8B,
4C;MAAiD,mB;MAAhD,gB;MAAoB,4B;K;4CAC/C,Y;MAAsC,OAAA,SAAK,aAAoB,eAApB,C;K;6CAEtC
C,oB;MAAkD,4BAAiB,SAAjB,EAAuB,4BAAa,QAAAb,CAAAb,C;;IChGV,sC;MAAC,gB;K;IAOf,4E;MAA8G,
mB;MAA7G,4B;MAAA6B,8B;MAAgD,sB;K;+DACpG,Y;MAAsC,OAAAgC,aAA/B,iBAAAW,OAAAX,UAAoB,gBAA
pB,CAA+B,EAAAW,iBAAAW,KAAAtB,CAAAhC,cAA8D,cAA9D,aAAAT,C;K;;K;;+CAGtD,oB;MAAkD,+CAAAa,gBAAAb,EAAAwB,
iBAAAxB,EAAAoC,0BAAAS,QAAAT,CAAApC,C;;K;;+CAGtD,Y;M
AAmC,mDAAAe,WAAAf,EAAAuB,IAAAvB,EAAA6B,0BAAAgAS,KAAAtB,C;;K;;IAGvC,0B;MAgB8BB8B,yE;MAC1B,mB;K;oC
AEA,Y;MAA4B,qB;K;iDAE5BB5B,oB;MAWc,Q;MADV
,gBAAgB,QAAAS,gBAAAO,SAAP,C;MACf,IAAI,gDAA+B,4
CAAnC,C;QAEN,iBAAAiB,mBAAAU,SAAAV,C;QACjB,IAAI,mBAAAY,SAAAZ,gBAAAyB,CAAAzB,IAA8B,mBAAAY,U
AAZ,eAAAyB,CAAA3D,C;UAA8D,gBAAAS,QAAAT,C;QACnC,C;QAC9D,iB;;;QAAEA,YAAY,QAAAS,kBAAAS,SAAS,kBAA
AS,SAAAT,C;QAAErB,m
BAAiB,4BAAU,K;QAC3B,IAAI,sDAAAb,kDAAnC,C;UAAgE,gBAAS,QAAT,C;QACrD,8BAAAX,YAAAW,C;;M
AVf,qB;K;0CAcJ,oB;MACI,MAAM,6BAAAsB,iDAAAa,cAAA/C,C;qCAAA0E,QAAA1E,EAAAiE,MAAAtB,C;K;;KqFC7Fd,yB;MAAA
A,yC;MAAAA,wB;MA2BQ,JxB6BI,WAAW,8B;QAhB6B,KAAiBxC,E;QAjBA,OAAkBBO,IAAK,a;O;KA7BhB,C;uFAeA,4B;M
AYI,WAAW,mB;MACX,O;MACA,OAAAO,IAAK,a;K;;sCAR9E,oB;MAAA,sBAAAO,C;MAAAc,wB;MAAAC,wB;K;;sCAR9E,Y
;MAAA,2C;O;KqFC7Fd,4B;

O,c2JyG0B,C3JzG1B,CAAP,CChDR,C;c0J0JgB,Q;;cALI,O;;UAAR,c;UAQA,IAAI,MAAM,yBAAV,C;YACI,I1Jv
KhB,oBDgDQ,W2JuHoB,0E3JvHpB,CChDR,C;;;U0J0KY,gBAAc,gB;UACd,IAAK,oBAAW,MAAX,C;;;K;;0EC1
MrB,4B;MAoKI,QAhKK,SAgKG,GAhKoB,KAgKpB,I;MACR,IAAI,CAjKC,SAiKD,GAjKwB,KAiKxB,IAAiB,C
AAjB,IAAsB,eAjKE,KAiKF,MAjKrB,SAiKL,C;QAA6C,a;;MAjK7C,OAkKO,C;K;kEAhKX,yB;MAAA,0B;MAA
A,mC;QA2KI,QAnKK,SAmKG,GAnKe,K;QAAvB,OAAgC,OAoKzB,KApKgB,KAoKX,GAAW,CAAC,CAAC,I
ApKF,KAoKC,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,KApKyB,C;O;KARpC,C;4
EAUA,4B;MAoJI,QAhJK,SAgJG,GAhJoB,KAgJpB,I;MACR,IAAI,CAjJC,SAiJD,GAjJwB,KAiJxB,IAAiB,CAAj
B,IAAsB,eAjJE,KAiJF,MAjJrB,SAiJL,C;QAA6C,a;;MAjJ7C,OAkJO,C;K;kEAhJX,yB;MAAA,4B;MAAA,mC;QA
2JI,QAnJK,SAmJG,GAnJe,K;QAAvB,OAAgC,OAoJzB,KApJgB,KAoJX,GAAW,CAAC,CAAC,IApJF,KAoJC,K
AAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,KApJyB,C;O;KARpC,C;4EAUA,4B;MAoII,
QAhIK,SAgIG,GAhIc,KAgId,I;MACR,IAAI,CAjIC,SAiID,GAjIkB,KAiIlB,IAAiB,CAAjB,IAAsB,eAjIJ,KAiII,M
AjIrB,SAiIL,C;QAA6C,a;;MAjI7C,OAkIO,C;K;kEAhIX,4B;MA2II,QAnIK,SAmIG,GAnIS,K;MAAjB,OAoIO,KA
pIU,KAoIL,GAAW,CAAC,CAAC,IApIR,KAoIO,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,
EAAlD,K;K;4EAlIX,yB;MAqMA,0B;MArMA,mC;QAIkB,kBAAT,oBAAAL,SAAK,C;QAqMML,QAAQ,gBArMe,K
AqMf,C;QACR,IAAI,gBAtMmB,KAsMnB,eAAiB,CAAjB,IAAsB,mBAtMMH,KAsMG,GAAa,WAAb,CAA1B,C;U
AA6C,W;;QAtM7C,OAuMO,C;O;KA3MX,C;kEAMAMA,4B;MAgNI,QAxMK,oBAAL,SAAK,CAwMG,QAxMU,K
AwMV,C;MAxMR,OAyMO,MAzMW,KAyMN,KAAa,MAzMP,KAyMO,CAAD,KAAmB,KAAM,CAAD,aAAL,
CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,C;K;4EAvMX,4B;MAoGI,QAhGK,SAgGG,GAhGoB,KAgGpB,I;
MACR,IAAI,CAjGC,SAiGD,GAjGwB,KAiGxB,IAAiB,CAAjB,IAAsB,eAjGE,KAiGF,MAjGrB,SAiGL,C;QAA6
C,a;;MAjG7C,OAkGO,C;K;kEAhGX,yB;MAAA,0B;MAAA,mC;QA2GI,QAnGK,SAmGG,GAnGe,K;QAAvB,O
AAgC,OAoGzB,KApGgB,KAoGX,GAAW,CAAC,CAAC,IApGF,KAoGC,KAAmB,KAAK,CAAC,CAAD,IAAL,
CAAnB,CAAD,KAAkC,EAAlD,KApGyB,C;O;KARpC,C;4EAUA,4B;MAoFI,QAhFK,SAgFG,GAhFoB,KAgFpB
,I;MACR,IAAI,CAjFC,SAiFD,GAjFwB,KAiFxB,IAAiB,CAAjB,IAAsB,eAjFE,KAiFF,MAjFrB,SAiFL,C;QAA6C,
a;;MAjF7C,OAkFO,C;K;kEAhFX,yB;MAAA,4B;MAAA,mC;QA2FI,QAnFK,SAmFG,GAnFe,K;QAAvB,OAAgC
,QAoFzB,KApFgB,KAoFX,GAAW,CAAC,CAAC,IApFF,KAoFC,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,
CAAD,KAAkC,EAAlD,KApFyB,C;O;KARpC,C;4EAUA,4B;MAoEI,QAhEK,SAgEG,GAhEc,KAgEd,I;MACR,I
AAI,CAjEC,SAiED,GAjEkB,KAiElB,IAAiB,CAAjB,IAAsB,eAjEJ,KAiEI,MAjErB,SAiEL,C;QAA6C,a;;MAjE7C
,OAkEO,C;K;kEAhEX,4B;MA2EI,QAnEK,SAmEG,GAnES,K;MAAjB,OAoEO,KApEU,KAoEL,GAAW,CAAC,
CAAC,IApER,KAoEO,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,K;K;4EAlEX,yB;
MAqIA,0B;MArIA,mC;QAIkB,kBAAT,oBAAAL,SAAK,C;QAqIL,QAAQ,gBArIe,KAqIf,C;QACR,IAAI,gBAtIm
B,KAsInB,eAAiB,CAAjB,IAAsB,mBAtIH,KAsIG,GAAa,WAAb,CAA1B,C;UAA6C,W;;QAtI7C,OAuIO,C;O;KA3I
X,C;kEAMAMA,4B;MAgJI,QAxIK,oBAAL,SAAK,CAwIG,QAxIU,KAwIV,C;MAxIR,OAyIO,MAzIW,KAyIN,KA
Aa,MAzIP,KAyIO,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,C;K;2EA
vIX,4B;MAoCI,QAhCA,QAhCCA,SAgCCQ,GAhCY,KAgCZ,I;MACR,IAAI,CAjCJ,SAiCI,GAjCgB,KAiChB,IAAiB,
CAAjB,IAAsB,eAjCN,KAiCM,MAjC1B,SAiCA,C;QAA6C,a;;MAjC7C,OAkCO,C;K;iEAhCX,yB;MAAA,0B;MAAA
,mC;QA2CI,QAnCA,QAnCCA,SAmCCQ,GAnCO,K;QAAf,OAAf,OAAwB,OAoCjB,KApCQ,KAoCH,GAAW,
CAAC,CAAC,IApCV,KAoCS,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,KApCiB,C;
O;KAR5B,C;4EAUA,4B;MAoBI,QAhBA,SAgBBQ,GAhBY,KAgBZ,I;MACR,IAAI,CAjBJ,SAiBI,GAjBgB,KAiBhB,
IAAiB,CAAjB,IAAs
B,eAjBN,KAiBM,MAjB1B,SAiBA,C;QAA6C,a;;MAjB7C,OAkBO,C;K;mEAhBX,yB;MAAA,4B;MAAA,mC;QA
2BI,QAnBA,SAmBBQ,GAnBO,K;QAAf,OAAf,OAAwB,QAoBjB,KApBQ,KAoBH,GAAW,CAAC,CAAC,IApBV,K
AoBS,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,KApBiB,C;O;KAR5B,C;4EAUA,4B;M
AII,QAAQ,YAAO,KAAP,I;MACR,IAAI,aAAS,KAAT,IAAiB,CAAjB,IAAsB,eAAI,KAAJ,MAAa,SAAvC,C;QA
A6C,a;;MAC7C,OAAO,C;K;mEAMA,4B;MAQI,QAAQ,YAAO,K;MACf,OAAO,KAAK,GAAW,CAAC,CAAC,I
AAM,KAAP,KAAmB,KAAK,CAAC,CAAD,IAAL,CAAnB,CAAD,KAAkC,EAAlD,K;K;4EAGX,yB;MAgEA,0B;
MAhEA,mC;QAIkB,kBAAT,oBAAAL,SAAK,C;QAgEL,QAAQ,gBAhEe,KAgEf,C;QACR,IAAI,gBAjEmB,KAiE
nB,eAAiB,CAAjB,IAAsB,mBAjEH,KAiEG,GAAa,WAAb,CAA1B,C;UAA6C,W;;QAjE7C,OAkEO,C;O;KAtEX,C;
kEAMAMA,4B;MA2EI,QAnEK,oBAAL,SAAK,CAmEG,QAnEU,KAmEV,C;MAnER,OAoEO,MApEW,KAoEN,K
AAa,MApEP,KAoEO,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,C;K;6

EAlEX,yB;MAgDA,0B;MAhDA,mC;QAIS,cAAe,oBAAN,KAAM,C;QAgDpB,QAhDA,SAgDQ,KAAO,OAAP,C;
QACR,IAjDA,SAiDI,KAAS,OAAT,eAAiB,CAAjB,IAAsB,mBAAI,OAAJ,GAjD1B,SAiD0B,CAA1B,C;UAA6C,
W;;QAjD7C,OAkDO,C;O;KAtDX,C;mEAMA,yB;MAAA,0B;MAAA,mC;QAQS,cAAU,oBAAN,KAAM,C;QAm
Df,QAnDA,SAmDQ,QAAO,OAAP,C;QAnDR,OAAyB,OAoDlB,MAAK,YAAa,MAAM,OAAN,CAAD,KAAmB,
KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,CApDkB,S;O;KAR7B,C;6EAUA,yB;MAgC
A,0B;MAhCA,mC;QAIS,cAAe,oBAAN,KAAM,C;QAgCpB,QAhCA,SAgCQ,KAAO,OAAP,C;QACR,IAjCA,SAi
CI,KAAS,OAAT,eAAiB,CAAjB,IAAsB,mBAAI,OAAJ,GAjC1B,SAiC0B,CAA1B,C;UAA6C,W;;QAjC7C,OAkCC
O,C;O;KAtCX,C;mEAMA,yB;MAAA,4B;MAAA,mC;QAQS,cAAU,oBAAN,KAAM,C;QAmCf,QAnCA,SAmCQ
,QAAO,OAAP,C;QAnCR,OAAyB,OAoClB,MAAK,YAAa,MAAM,OAAN,CAAD,KAAmB,KAAM,CAAD,aAA
L,CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,CApCkB,S;O;KAR7B,C;6EAUA,yB;MAgBA,0B;MAhBA,mC;
QAIS,cAAe,oBAAN,KAAM,C;QAgBpB,QAhBA,SAgBQ,KAAO,OAAP,C;QACR,IAjBA,SAiBI,KAAS,OAAT,e
AAiB,CAAjB,IAAsB,mBAAI,OAAJ,GAjB1B,SAiB0B,CAA1B,C;UAA6C,W;;QAjB7C,OAkBO,C;O;KAtBX,C;m
EAMA,4B;MAQS,cAAU,oBAAN,KAAM,C;MAmBf,QAnBA,SAmBQ,QAAO,OAAP,C;MAnBR,OAoBO,MAAK
,YAAa,MAAM,OAAN,CAAD,KAAmB,KAAM,CAAD,aAAL,CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,CA
pBkB,Q;K;6EAE7B,yB;MAAA,0B;MAAA,mC;QAII,QAAQ,cAAO,KAAP,C;QACR,IAAI,cAAS,KAAT,eAAiB,
CAAjB,IAAsB,mBAAI,KAAJ,GAAa,SAAb,CAA1B,C;UAA6C,W;;QAC7C,OAAO,C;O;KANX,C;mEASA,4B;M
AQI,QAAQ,iBAAO,KAAP,C;MACR,OAAO,MAAK,UAAa,MAAM,KAAN,CAAD,KAAmB,KAAM,CAAD,aAA
L,CAAnB,CAAD,YAAkC,EAAlC,CAAX,CAAL,C;K;kEAGX,yB;MpGiqB2C,iB;MoGjqB3C,mC;QAUI,QAAQ,Y
AAO,K;QACJ,iBAAS,G;QAAT,S;UAAsB,OpGspBc,MAAiC,MoGtpB,B/C;CpGspB+C,CoGtpB,B/C,KpGspBc,MAAi
C,MoGtpBrC,KpGspBqC,C;;QoGtpBhF,OAAO,OAAgD,IAAI,KAApD,GAA+D,C;O;KAX1E,C;mEAAcA,yB;MpG
0I6C,iB;MoG1I7C,mC;QAkCI,QAxBK,SAwBG,GAxBY,K;QAyBT,iBAAK,G;QAAL,S;UAAY,OpGuG0B,MAA
W,MoGvGrC,CpGuGqC,CoGvG,GqC,CoGvGrC,KpGuG0B,MAAW,MoGvGhIxC,KpGgIwC,C;;QoGhI5D,OAyBO,O
AAsC,IAzBzB,B,KAyBbb,GAAqD,C;O;KAnChE,C;mEAAYA,yB;MpG8H6C,iB;MoG9H7C,mC;QAsBI,QAZK,SAYG
,GAZY,K;QAaT,iBAAK,G;QAAL,S;UAAY,OpGuG0B,MAAW,MoGvGrC,CpGuGqC,CoGvG,GqC,CoGvGrC,KpGuG
0B,MAAW,MoGvGpH7C,KpGoHo6C,C;;QoGpHh5D,OAaO,OAAsC,IAAb9B,KAaR,GAAqD,C;O;KAvBhE,C;mEAA
YA,yB;MpGkH6C,iB;MoGlHh7C,mC;QAUI,QAAQ,YAAO,K;QACJ,iBAAK,G;QAAL,S;UAAY,OpGuG0B,MAAW
,MoGvGrC,CpGuGqC,CoGvG,GqC,CoGvGrC,KpGuG0B,MAAW,MoGvG3B,KpGuG2B,C;;QoGvG5D,OAAO,OAAsC
,IAAI,KAA1C,GAAqD,C;O;KAXhE,C;4ECnTA,yB;MAAA,8B;MAAA,4B;QAOyC,Q;QAAA,gFAAoB,C;O;KAP7D,C;I
CM0B,4C;MA+CtB,qC;MA/CuB,kB;MAAgB,kB;MAAgB,kB;MAMvD,iBAAsB,iBAAU,UAAV,EAAiB,UAAjB,EA
AwB,UAAxB,C;K;0CAEtB,+B;M5MWA,IAAI,E4MViB,IAAV,E4MV,MAAY,GAAZ,KAA4C,CAAT,sBAAY,GAAZ,K
AA4C,CAAT,sBAAY,GAA/C,MAA+E,CAAT,sBAAY,GAAlF,C5MU5D,C;Q 4MTI,c4MAEtF,C5MUR,+B;Q5MTI,M4M
WA,IAAI,E4MViB,IAAV,E4MV,QA5MWA,IAAI,E4MVib,E4MVAV,gB,KAAAgB,kB,KAAAgB,kB,KAAMvD,iBAASB
,iBAAU,UAAV,EAAiB,UAAjB,EAAwB,UAAxB,C,KpGspB-B,KpGspB/B,IpG;KpGuCAGX,Y;MAGkC,OAAE,UAAF,oB
AAS,UAAT,SAAgB,U;K;qCAElD,iB;MAEwB,gB;MADpB,IAAI,SAAS,KAAb,C;QAAoB,OAAO,I;MACP,iE;MAAD,m
B;MAA6B,gB;MAD5B,IAAI,SAAS,KAAb,C;QAAoB,OAAO,I;MACN,iE;MAAD,mB;MAA6B,gB;MAA5B,IAAI,SAA
S,KAAb,C;QAAoB,OAAO,I;MAAN,iE;MACP,iE;MAAD,mB;MAA6B,gB;MAA5B,IAAI,SAAS,KAAb,C;QAAoB,O
AAO,I;MAAN,iE;MACP,iE;MAAD,mB;MAA5B,IAAI,SAAS,KAAb,C;QAAoB,OAAO,I;MAAN,iE;MAAD,mB;MAA
AA,iC;MAAA,uC;MAEvC,eAIoC,uCAA0B,M;K;;IA9C9C,IAXlE,+C;MAAA,8C;QAAA,6B;;MAAA,uC;K;;IA9CA,iD;M
AAA,gD;QAAA,6B;;MAAA,yC;K;IAIJ,mC;MAAA,uC;MACI,2BAIuC,G;MAEvC,eAIoC,uCAA0B,M;K;;;IAXlE,+C;M
AAA,8C;QAAA,6B;;MAAA,uC;K;;IA9CA,iD;MAAA,gD;QAAA,6B;;MAAA,yC;K;IAIJ,mC;MAAA,uC;MACI,2BAIu
C,G;MAEvC,eAIoC,uCAA0B,M;K;;;IAXlE,+C;MAAA,8C;QAAA,6B;;MAAA,uC;K;;IA9CA,iD;MAAA,gD;QAAA,6
B;;MAAA,yC;K;IAIJ,mC;MAAA,uC;MACI,2BAIuC,G;MAEvC,eAIoC,uCAA0B,M;K;IAG
oC,qC;MAChC,qBAAsC,W;MACtC,gBAA2B,iC;K;uFAGvB,Y;MAMW,Q;MALP,IAAI,kBAAAW,iCAAf,C;QACI
,gBAAAS,mC;QACT,qBAAc,I;;MAGlB,OAAAO,gF;K;;6CAGf,Y;MAAAwC,yBAAW,iC;K;wCAEnD,Y;MAAkC,OA

AI,oBAAJ,GAA2B,SAAN,UAAM,CAA3B,GAA2C,iC;K;8CAE7E,Y;MAAkC,+BAAoB,UAApB,C;K;;IAGG,oC;
MAAC,4B;K;wEAAA,Y;MAAA,2B;K;kDAEtC,Y;MAAwC,W;K;6CAExC,Y;MAAkC,OAAM,SAAN,UAAM,C;
K;;oFC2C5C,yB;MAAA,gD;MAAA,4B;QAM6C,OAAmB,aAAlB,YAAY,GAAM,C;O;KANhE,C;oGAQA,yB;Mx
G7FA,iB;MwG6FA,4B;QAMqD,OxG7FM,MAAO,OwG6FZ,YAAY,GxG7FA,CwG6Fb,GAA6C,EAA7C,I;O;KA
NrD,C;sGAQA,yB;MAAA,kE;MAAA,4B;QAMsD,OAAmB,sBAAlB,YAAW,GAAO,C;O;KANzE,C;8FAQA,yB;
MAAA,0D;MAAA,0B;MAAA,4B;QAOmD,OAAuC,OAApB,kBAAlB,YAAY,GAAM,CAAoB,C;O;KAP1F,C;4F
ASA,yB;MAAA,wD;MAAA,0B;MAAA,4B;QAOkD,OAA2B,OAAnB,iBAAR,SAAQ,CAAmB,C;O;KAP7E,C;IA
UA,2C;MAaI,OAA+E,OAA9E,SAAQ,KAAI,WAAa,CAAjB,CAAR,GAAkD,CAAlB,YAAY,GAAM,MAAK,CA
AL,IAAU,WAAa,CAAvB,CAA4B,C;K;IAEnF,4C;MAaI,OAA+E,OAA9E,SAAQ,IAAI,CAAJ,IAAS,WAAa,CAAt
B,CAAR,GAAwD,CAAlB,YAAY,GAAM,OAAK,WAAa,CAAlB,CAAsB,C;K;oFAEnF,yB;MAAA,gD;MAAA,4
B;QAM8C,OAAqB,aAApB,YAAY,KAAQ,C;O;KANnE,C;oGAQA,yB;MxGtKA,iB;MwGsKA,4B;QAOI,OxGvK
uD,MAAO,OwGuK7D,YAAY,KxGvKiD,CwGuK9D,GAA+C,EAA/C,I;O;KAPJ,C;sGASA,yB;MAAA,kE;MAAA
,4B;QAMuD,OAAqB,sBAApB,YAAW,KAAS,C;O;KAN5E,C;8FAQA,yB;MAAA,0D;MAAA,4B;MAAA,4B;QA
OqD,OAAyC,QAApB,kBAApB,YAAY,KAAQ,CAAoB,C;O;KAP9F,C;4FASA,yB;MAAA,wD;MAAA,4B;MAA
A,4B;QAOoD,OAA2B,QAAnB,iBAAR,SAAQ,CAAmB,C;O;KAP/E,C;IAUA,2C;MAaI,OAAoF,QAAnF,SAAQ,
KAAI,WAAa,EAAjB,CAAR,GAAqD,CAApB,YAAY,KAAQ,MAAK,EAAL,IAAW,WAAa,EAAxB,CAA8B,C;K;
IAExF,4C;MAaI,OAAoF,QAAnF,SAAQ,IAAI,EAAJ,IAAU,WAAa,EAAvB,CAAR,GAA4D,CAApB,YAAY,KA
AQ,OAAK,WAAa,EAAlB,CAAuB,C;K;0E/MlRxF,yB;MAaA,kF;MAbA,wB;QAuBI,IAAI,CAbI,KAaR,C;UACI,c
Ada,qB;UAeb,MAAM,8BAAyB,OAAQ,WAAjC,C;;O;KAzBd,C;0EAaA,yB;MAAA,kF;MAAA,qC;QAUI,IAAI,C
AAC,KAAL,C;UACI,cAAc,a;UACd,MAAM,8BAAyB,OAAQ,WAAjC,C;;O;KAZd,C;sFAgBA,yB;MAWA,kF;M
AXA,wB;QAQW,yB;QAeP,IAfsB,KAelB,QAAJ,C;UACI,cAhB2B,0B;UAiB3B,MAAM,8BAAyB,OAAQ,WAAjC
,C;;O;KAEN,wBAnBkB,K;;QAAtB,4B;O;KARJ,C;wFAWA,yB;MAAA,kF;MAAA,qC;QAYI,IAAI,aAAJ,C;UACI,c
AAc,a;UACd,MAAM,8BAAyB,OAAQ,WAAjC,C;;UAEN,OAAO,K;;O;KAhBf,C;oEAoBA,yB;MAaA,4E;MAbA,
wB;QAuBI,IAAI,CAbE,KAaN,C;UACI,cAdW,e;UAeX,MAAM,2BAAsB,OAAQ,WAA9B,C;;O;KAzBd,C;sEAaA
,yB;MAAA,4E;MAAA,qC;QAUI,IAAI,CAAC,KAAL,C;UACI,cAAc,a;UACd,MAAM,2BAAsB,OAAQ,WAA9B,
C;;O;KAZd,C;kFAgBA,yB;MAcA,4E;MAdA,wB;QAWW,uB;QAeP,IAfoB,KAehB,QAAJ,C;UACI,cAhByB,0B;UA
AiBzB,MAAM,2BAAsB,OAAQ,WAA9B,C;;UAEN,sBAnBgB,K;;QAApB,0B;O;KAXJ,C;oFAcA,yB;MAAA,4E;
MAAA,qC;QAYI,IAAI,aAAJ,C;UACI,cAAc,a;UACd,MAAM,2BAAsB,OAAQ,WAA9B,C;;UAEN,OAAO,K;;O;
KAhBf,C;oEAqBA,yB;MAAA,4E;MAAA,0B;QAMiD,MAAM,2BAAsB,OAAQ,WAA9B,C;O;KANvD,C;I8CnHi
C,uB;MA2D7B,8B;MA1DA,kB;K;mFAS8B,Y;MAAQ,iD;K;mFAMR,Y;MAAQ,gD;K;wFAItC,yB;MAAA,gB;M
AAA,8B;MAAA,mB;QAWgB,Q;QADR,mB;UADJb,OACiB,I;;UADjB,OAEY,2E;O;KAXhB,C;uCAcA,Y;MAQQ,
kBADE,UACF,kB;QADJ,OACkB,UAAM,U;;QAADxB,OAEY,I;K;gCAGhB,Y;MAOQ,kBADE,UACF,kB;QADJ,O
ACkB,UAAM,W;;QADxB,OAEY,sBAAU,UAAV,O;K;IAKhB,4B;MAAA,gC;K;wHAKI,yB;MAAA,iC;MAAA,w
B;QAOI,uBAAO,KAAP,C;O;KAPJ,C;wHASA,yB;MAAA,kD;MAAA,iC;MAAA,4B;QAOI,uBAAO,cAAc,SAAd,
CAAP,C;O;KAPJ,C;;;IAdJ,wC;MAAA,uC;QAAA,sB;;MAAA,gC;K;IAwBsB,mC;MAClB,0B;K;sCAGA,iB;MAA
4C,+CAAoB,uBAAAa,KAAM,UAAAnB,C;K;wCACtzC,Y;MAA+B,OAAAU,cAAU,W;K;wCACzC,Y;MAAkC,
oBAAU,cAAV,M;K;;;;;;;;gCA/F1C,Y;MAAA,c;MAOI,sD;MAPJ,a;K;8CAAA,iB;MAAA,2IAOI,sCAPJ,G;K;IAmG
A,kC;MAOI,OAAO,mBAAQ,SAAR,C;K;IAEX,mC;MAQI,IAAI,IAAI,8CAAJ,C;;YACS,OAAAa,kBADE,UACF,kB
;QADJ,OACkB,MAAK,wB;QAAcR,OAAO,I;O;KAP5C,C;iqEAuYgC;;OAAAP,cAAU,W;;kBADE,UACF,kB;QA
;4C;+CAAoB,uBAAAa,KAAM,UAAAnB,C;K;wCAC5C,Y;MAA+B,;sCAGAqB,iB;MAA4C,+CAAoB,uBAAA
A,kC;MAOI,OAAO,mBAAQ,SAAR,C;K;IAEX,mC;MAQI,IAAI,IAAI,8CAAJ,C;;YACS,OAAAa,kBADE,UACF,k
B;QADJ,OACkB,MAAK,wB;QAAcR,OAAO,I;O;KAP5C,C;;YAADC,OAEY,I;K;gCAGhB,Y;MAOQ,kBADE,UA
CF,kB;QADJ,OACkB,UAAM,W;;QADxB,OAEY,sBAAU,UAAV,O;K;IAKhB,4B;MAAA,gC;K;wHAKI,yB;MAA
A,iC;MAAA,wB;QAOI,uBAAO,KAAP,C;O;KAPJ,C;wHASA,yB;MAAA,kD;MAAA,iC;MAAA,4B;QAOI,uBAAO
,cAAc,SAAd,CAAP,C;O;KAPJ,C;;;IAdJ,wC;MAAA,uC;QAAA,sB;;MAAA,gC;K;IAwBsB,mC;MAClB,0B;K;s
B;MAAA,uC;YAe8C;;YACS,OAAA;sMAAJ,C;O;KAPJ,C;I8CnHiC,uB;MA2D7B,8B;MA1DA,kB;K;mFAS8B,Y;
B;MAAA,uC;QAAA, sB;;MAAA,gC;K;IAwBsB,mC;MAClB,0B;K;sCAGA,iB;MAA4C,+CAAoB,uBAAAa,KAAM
,UAAAnB,C;K;wCAC5C,Y;MAA+B,OAAAU,cAAU,W;K;wCACzC,Y;MAAkC,oBAAU,cAAV,M;K;YAe8C,
I;YADnC,M;QACH,wB;UAAa,gB;UAAO,SA7JhB,WA6JwB,UAAU,gFAAV,CA7JxB,C;;U

A8JI,oBAAO,eAAP,C;QAFZ,a;O;KAdJ,C;gFAoBA,yB;MAAA,gB;MAAA,8B;MAAA,iC;MA1GA,qB;MAtDQ,k
D;MAgKR,uC;QAWW,Q;QACH,wB;UA/GG,U;;YA+GkC,U;YA9G9B,SAhEH,gBA8KuB,UAAU,sFAAV,CA9K
vB,C;;YAiEN,gC;cACS,SAzDH,gBAAO,cAyDI,CAzDJ,CAAP,C;;cAsDD,O;;UA+GU,a;;UACL,uBAAO,eAAP,C;
QAFZ,W;O;KAXJ,C;wEAiBA,yB;MAAA,4B;MAAA,uC;QAcW,Q;QAAM,gBAAgB,2B;QACzB,sB;UAAQ,gB;;
UACO,OAnMX,WAmMmB,UAAU,SAAV,CAnMnB,C;;QAiMR,W;O;KAdJ,C;wFAoBA,yB;MA/IA,4B;MAAA,q
B;MAtDQ,kD;MAqMR,uC;QAWW,Q;QAAM,gBAAgB,2B;QACzB,sB;UAAQ,gB;;UApJL,U;;YACI,SAhEH,WA
oNkB,oBApNlB,C;;YAiEN,gC;cACS,SAzDH,WAAO,cAyDI,CAzDJ,CAAP,C;;cAsDD,O;;UAqJK,a;;QAFZ,W;O;
KAXJ,C;4EAmBA,6B;MAUI,Q;MAAA,iD;QAAyB,Y;;MACzB,OAAO,S;K;4EAGX,yB;MAAA,gB;MAAA,8B;M
AAA,oC;QAU0B,Q;QAAtB,IAAI,mBAAJ,C;UAAe,OAAO,gFAAP,C;;QACf,OAAO,S;O;KAXX,C;I3CtTgC,sC;
MAAC,uB;QAAA,UAAkB,kC;mBAA4C,O;;K;;0DAE/F,yB;MAAA,2D;MAAA,mB;QAKoC,MAAM,8B;O;KAL1
C,C;oEAOA,yB;MAAA,2D;MAAA,yB;QAMkD,MAAM,6BAAoB,sCAAmC,MAAvD,C;O;KANxD,C;gEAUA,iB
;MAUI,OAAO,O;K;kEAGX,4B;MAUI,OAAO,gB;K;oEAGX,2B;MAUI,OAAgB,MAAT,QAAS,C;K;oEAGpB,4B
;MAUI,gB;MACA,OAAO,S;K;kEAGX,4B;MAWI,MAAM,SAAN,C;MACA,OAAO,S;K;kEAGX,4B;MAUI,OAA
O,MAAM,SAAN,C;K;sEAGX,gC;MAWI,OAAW,UAAU,SAAV,CAAJ,GAAqB,SAArB,GAA+B,I;K;8EAG1C,g
C;MAWI,OAAW,CAAC,UAAU,SAAV,CAAL,GAAsB,SAAtB,GAAgC,I;K;wEAG3C,yB;MAWI,iBAAc,CAAd,
UAAsB,KAAtB,U;QACI,OAAO,KAAP,C;;K;wE6MjJR,iB;MAIkF,Y;K;ICY9C,6B;MAChC,kB;MACA,oB;K;8B
AGA,Y;MAGyC,aAAG,UAAH,UAAW,WAAX,M;K;;gCAvB7C,Y;MAgBI,iB;K;gCAhBJ,Y;MAiBI,kB;K;kCAjB
J,yB;MAAA,gBAgBI,qCAhBJ,EAiBI,wCAjBJ,C;K;8BAAA,Y;MAAA,c;MAgBI,sD;MACA,uD;MAjBJ,a;K;4BA
AA,iB;MAAA,4IAgBI,sCAhBJ,IAiBI,wCAjBJ,I;K;IA0BA,6B;MAMoD,gBAAK,SAAL,EAAW,IAAX,C;K;IAEp
D,8B;MAI8C,iBAAAO,eAAP,EAAc,gBAAd,E;K;IAiBD,sC;MACzC,kB;MACA,oB;MACA,kB;K;gCAGA,Y;MAG
yC,aAAG,UAAH,UAAW,WAAX,UAAoB,UAApB,M;K;;gCAxB7C,Y;MAgBI,iB;K;kCAhBJ,Y;MAiBI,kB;K;kC
AjBJ,Y;MAkBI,iB;K;oCAlBJ,gC;MAAA,kBAgBI,qCAhBJ,EAiBI,wCAjBJ,EAkBI,qCAlBJ,C;K;gCAAA,Y;MAA
A,c;MAgBI,sD;MACA,uD;MACA,sD;MAlBJ,a;K;8BAAA,iB;MAAA,4IAgBI,sCAhBJ,IAiBI,wCAjBJ,IAkBI,sCA
lBJ,I;K;IA2BA,8B;MAAImD,iBAAAO,eAAP,EAAc,gBAAd,EAAsB,eAAtB,E;K;I7NlE1B,qB;MAErB,6B;MAFwD,g
B;K;IAExD,2B;MAAA,+B;MACI,iBAGoC,UAAM,CAAN,C;MAEpC,iBAGoC,UAAM,MAAN,C;MAEpC,kBAG
mC,C;MAEnC,iBAGkC,C;K;;;IAnBtC,uC;MAAA,sC;QAAA,qB;;MAAA,+B;K;kGAsBA,iB;MAOmE,OAAa,0BA
2O1C,SAAL,GAAiB,GA3O8B,EAAU,KA2OpD,KAAL,GAAiB,GA3O8B,C;K;sGAEhF,iB;MAM2D,OAAAa,0BA
mOlC,SAAL,GAAiB,GAnOsB,EAAU,KEoO5C,KAAL,GAAiB,KFpOsB,C;K;sGAExE,yB;MA0PA,6B;MC3PA,8
C;MDCA,wB;QAMyD,OCAS,YAAiB,CD6PhD,cAAU,SAAL,GAAiB,GAAtB,CC7PgD,MAAjB,EDAe,KCAc,KA
A7B,C;O;KDNlE,C;sGAQA,yB;MA4PA,WAS6D,wB;MAT7D,+B;MiB7PA,gD;MjBCA,wB;QAM0D,OiBAS,aA
AkB,CjB+PhD,eAAW,oBAAL,SAAK,CAAX,CiB/PgD,MAAlB,EjBAe,KiBAc,KAA9B,C;O;KjBNnE,C;4FAQA,yB;MA0OA,6B;MA1OA,+B;QAMsD,OCAS,YAAiB,CD6O5B,cAAU,SAAL,GAAiB,GAAtB,CC7O4B,MAAjB,EDAe,KCAc,KAA7B,C;O;KDNvE,C;4FAQA,yB;MAoOA,WASmD,wB;MAToD,+B;MiB7OA,gD;MjBCA,wB;QAMuD,OiBAS,aAAkB,CjB+N5B,eAAW,oBAAL,SAAK,CAAX,CiB/N4B,MAAlB,EjBAe,KiBAc,KAA9B,C;O;KjBNxD,C;8FAQA,yB;MAwNA,6B;MAxNA,+B;QAMqD,OCAS,YAAiB,CD6M3B,cAAU,SAAL,GAAiB,GAAtB,CC7M2B,MAAjB,EDAe,KCAc,KAA7B,C;O;KDNtE,C;8FAQA,yB;MAkNA,WASkD,wB;MAToD,+B;MiB7MA,gD;MjBCA,wB;QAMsD,OiBAS,aAAkB,CjB+L3B,eAAW,oBAAL,SAAK,CAAX,CiB/L2B,MAAlB,EjBAe,KiBAc,KAA9B,C;O;KjBNvD,C;8FAIA,yB;MA6MA,6B;MA7MA,+B;QAMqD,OCAS,YAAiB,CDkM3B,cAAU,SAAL,GAAiB,GAAtB,CClM2B,MAAjB,EDAe,KCAc,KAA7B,C;O;KDNtE,C;8FAEmE,EAAY,CDiM9C,cAvNC,SAAL,GAAiB,GAuNb,EAAU,KDiMpC,KAvNC,KAAL,GAAiB,GAuNb,C;K;IA6NA,yB;MA6MA,WASkD,wB;MAToD,+B;MiB7MA,gD;MjBCA,wB;QAMsD,OiBAS,aAAkB,CCj

N6B,MAAK,EAAY,CCkN9C,cFrNyC,KEqN/B,KAAL,GAAiB,KAAtB,CDlN8C,MAAZ,CAAf,C;O;KDLtD,C;8F
AGA,yB;MA0MA,6B;MA1MA,wB;QAEsD,OCAA,cAAe,YAAL,CDiN7B,cAAU,SAAL,GAAiB,GAAtB,CCjN6B
,MAAK,EDAK,KCAO,KAAZ,CAAf,C;O;KDFtD,C;8FAGA,yB;MAiNA,WAS6D,wB;MAT7D,+B;MAjNA,wB;Q
AEwD,OiBAA,eAAW,CjBwN9B,eAAW,oBAAL,SAAK,CAAL,UAAN,CiBxN8B,MAAK,UjBAK,KiBAO,KAAZ
,CAAhB,C;O;KjBFxD,C;0FAIA,yB;MAmMA,6B;MC7LA,4C;MDNA,wB;QAEqD,OCMD,WDoMjB,cAAU,SAA
L,GAAiB,GAAtB,CCpMiB,EDoMjB,cA1MoC,KA0M1B,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KDRpD,C;0FAG
A,yB;MAgMA,6B;MC7LA,4C;MDHA,wB;QAEsD,OCGF,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,ECq
MjB,cFxMqC,KEwM3B,KAAL,GAAiB,KAAtB,CDrMiB,C;O;KDLpD,C;0FAGA,yB;MA6LA,6B;MC7LA,4C;M
DAA,wB;QAEoD,OCAA,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,EDAkB,KCAlB,C;O;KDFpD,C;0FA
GA,yB;MAoMA,WAS6D,wB;MAT7D,+B;MiBpMA,8C;MjBAA,wB;QAEsD,OiBAA,YjB2MjB,eAAW,oBAAL,S
AAK,CAAL,UAAN,CiB3MiB,EjBAmB,KiBAnB,C;O;KjBFtD,C;0FAIA,yB;MAsLA,6B;MCxKA,kD;MDdA,wB;
QAMqD,OCcD,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,ED2KjB,cAzLoC,KAyL1B,KAAL,GAAiB,GAAt
B,CC3KiB,C;O;KDpBpD,C;0FAOA,yB;MA+KA,6B;MCxKA,kD;MDPA,wB;QAMsD,OCOF,cD2KjB,cAAU,SA
AL,GAAiB,GAAtB,CC3KiB,EC4KjB,cFnLqC,KEmL3B,KAAL,GAAiB,KAAtB,CD5KiB,C;O;KDbpD,C;0FAOA,
yB;MAwKA,6B;MCxKA,kD;MDAA,wB;QAMoD,OCAA,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,EDAk
B,KCAlB,C;O;KDNpD,C;0FAOA,yB;MA2KA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MjBAA,wB;QAMsD,OiB
AA,ejB8KjB,eAAW,oBAAL,SAAK,CAAL,UAAN,CiB9KiB,EjBAmB,KiBAnB,C;O;KjBNtD,C;oGAQA,yB;MAy
JA,6B;MC7LA,4C;MDoCA,wB;QAMiD,OCxCG,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,EDoMjB,cA5
JqC,KA4J3B,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KDkCpD,C;oGAOA,yB;MAkJA,6B;MC7LA,4C;MD2CA,wB;
QAMkD,OC/CE,WDoMjB,cAAU,SAAL,GAAiB,GAAtB,CCpMiB,ECqMjB,cFtJsC,KEsJ5B,KAAL,GAAiB,KAA
tB,CDrMiB,C;O;KDyCpD,C;oGAOA,yB;MA2IA,6B;MC7LA,4C;MDkDA,wB;QAMgD,OCtDI,WDoMjB,cAAU,
SAAL,GAAiB,GAAtB,CCpMiB,EDsDmB,KCtDnB,C;O;KDgDpD,C;oGAOA,yB;MA8IA,WAS6D,wB;MAT7D,+
B;MiBpMA,8C;MjBsDA,wB;QAMkD,OiB1DI,YjB2MjB,eAAW,oBAAL,SAAK,CAAL,UAAN,CiB3MiB,EjB0D
oB,KiB1DpB,C;O;KjBoDtD,C;0FAQA,yB;MA4HA,6B;MCxKA,kD;MDuOJ,0B;MAAA,+B;MA3LI,wB;QAQ6C,
OA8LR,eAAW,OC5OI,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,ED2KjB,cA7H4B,KA6HlB,KAAL,GAAi
B,GAAtB,CC3KiB,CAkLf,KD0DW,CAAX,C;O;KAtMrC,C;0FASA,yB;MAmHA,6B;MCxKA,kD;MCwOJ,4B;M
AAA,iC;MFnLI,wB;QAQ+C,OEsLR,gBAAY,QD7OC,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,EC4KjB,c
FrH8B,KEqHpB,KAAL,GAAiB,KAAtB,CD5KiB,CA4Lb,KCiDY,CAAZ,C;O;KF9LvC,C;0FASA,yB;MA0GA,6B
;MCxKA,kD;MD8DA,wB;QAQ2C,OChES,cD2KjB,cAAU,SAAL,GAAiB,GAAtB,CC3KiB,EDgES,KChET,C;O;
KDwDpD,C;0FASA,yB;MA2GA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MjBgEA,wB;QAQ6C,OiBlES,ejB8KjB,e
AAW,oBAAL,SAAK,CAAL,UAAN,CiB9KiB,EjBkEU,KiBlEV,C;O;KjB0DtD,C;0EAUA,yB;MAAA,0B;MAAA,
+B;MAAA,mB;QAM0C,sBAAW,OAAL,SAAK,KAAX,C;O;KAN1C,C;0EAQA,yB;MAAA,0B;MAAA,+B;MAA
A,mB;QAM0C,sBAAW,OAAL,SAAK,KAAX,C;O;KAN1C,C;kGAQA,yB;MAAA,8C;MAuEA,6B;MAvEA,wB;
QAE8D,0BA8E3B,cAAU,SAAL,GAAiB,GAAtB,CA9E2B,EA8E3B,cA9EoD,KA8E1C,KAAL,GAAiB,GAAtB,C
A9E2B,C;O;KAF9D,C;0FAIA,yB;MAAA,+B;M6LxOJ,0B;M7LwOI,wB;QAEmD,sB6LvOgC,O7LuO1B,IAAK,K
6LvOX,G7LuOoB,KAAM,K6LvOM,C7LuOhC,C;O;KAFnD,C;wFAGA,yB;MAAA,+B;M6LtOJ,0B;M7LsOI,wB;
QAEkD,sB6LrO+B,O7LqOzB,IAAK,K6LrOX,G7LqOmB,KAAM,K6LrOM,C7LqO/B,C;O;KAFlD,C;0FAGA,yB;
MAAA,+B;M6LpOJ,0B;M7LoOI,wB;QAEmD,sB6LnOgC,O7LmO1B,IAAK,K6LnOX,G7LmOoB,KAAM,K6Ln
OM,C7LmOhC,C;O;KAFnD,C;0EAGA,yB;MAAA,+B;M6LlOJ,0B;M7LkOI,mB;QAEiC,sB6LjOqB,OAAP,C7Li
OR,S6LjOe,C7LiOrB,C;O;KAFjC,C;gFAIA,Y;MASmC,gB;K;kFACnC,yB;M6L1OJ,4B;M7L0OI,mB;QASqC,O6
LhPiD,Q7LgP5C,S6LhPY,G7LgPE,G6LhP8B,C;O;K7LuOtF,C;8EAUA,Y;MASiC,OAAK,SAAL,GAAiB,G;K;gF
AClD,yB;MAAA,WASqD,wB;MATrD,mB;QASmC,OAAK,oBAAL,SAAK,CAAL,U;O;KATnC,C;kFAWA,Y;M
AEqC,W;K;oFACrC,yB;MAAA,iC;M6L5QJ,4B;M7L4QI,mB;QASuC,uB6LlIR+C,Q7LkIRnC,S6LlIRG,G7LkIRW,G
6LlIRqB,C7LkIR/C,C;O;KATvC,C;gFAUA,yB;MAAA,6B;MAAA,mB;QASmC,qBAAU,SAAL,GAAiB,GAAtB,C;
O;KATnC,C;kFAUA,yB;MAAA,WAS6D,wB;MAT7D,+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,U
AAN,C;O;KATrC,C;kFAWA,Y;MAMqC,OApDC,SAAL,GAAiB,G;K;oFAqDlD,Y;MAMuC,OA3DD,SAAL,GA
AiB,G;K;+BA6DlD,Y;MAAyC,OAAAQ,CA7DX,SAAL,GAAiB,GA6DD,Y;K;;;;;+BA1UrD,Y;MAAA,c;MAG4D,q
D;MAH5D,a;K;6BAAA,iB;MAAA,2IAG4D,oCAH5D,G;K;wEA8UA,yB;MAAA,+B;MAAA,4B;QAU0C,sBAAM

,SAAN,C;O;KAV1C,C;0EAWA,yB;MAAA,0B;MAAA,+B;MAAA,4B;QAW2C,sBAAW,OAAL,SAAK,CAAX,C;
O;KAX3C,C;0EAYA,yB;MAAA,0B;MAAA,+B;MAAA,4B;QAWyC,sBAAW,OAAL,SAAK,CAAX,C;O;KAXzC
,C;0EAYA,yB;MAAA,0B;MAAA,+B;MAAA,4B;QAW0C,sBAAW,OAAL,SAAK,SAAX,C;O;KAX1C,C;IgC9W
A,6B;MACqB,sB;K;uCAKjB,iB;MAM6C,OhCyUP,UgcGzUO,aAAQ,KAAR,ChCyUP,C;K;uCgCvUtC,wB;MAOI,
aAAQ,KAAR,IAAiB,KhCiOc,K;K;kFgC7NL,Y;MAAQ,OAAA,YAAQ,O;K;oCAE9C,Y;MAC8E,+BAAS,YAAT,
C;K;IAGxD,oC;MAAiC,wB;MAAhC,oB;MACnB,eAAoB,C;K;4CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;8CACv
C,Y;MAAyD,Q;MAA9B,IAAI,eAAQ,YAAM,OAAlB,C;QAAA,OhCmTO,UgCnTiB,aAAM,mBAAN,EAAM,2B
AAN,OhCmTjB,C;;QgCnT+C,MAAM,2BAAuB,YAAM,WAA7B,C;K;;0CAG3F,mB;MAIS,Q;MAAL,IAAI,eAA
C,0EAAD,QAAJ,C;QAAiC,OAAO,K;MAExC,OAAe,WAAR,YAAQ,EAAS,OhC2MO,KgC3MhB,C;K;+CAGnB,
oB;MACY,Q;MAA2B,gBAAA3B,gE;MAA2B,c;;Qd0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,
I;UAAP,e;;QACrB,6B;QAAhB,OAAAgB,gBAAhB,C;UAAgb,2B;Uc1nD6B,2Bd0nDR,Oc1nDQ,Q;UAAA,W;YAA
uB,oBAAR,YAAQ,Ed0nD/B/B,OlBn7CF,KgCvMiC,C;;Ud0nD9C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;;QAC/
C,aAAO,I;;;Mc3nDH,iB;K;mCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,sC;MAAA,oD
;MACgC,uBAAK,cAAU,IAAV,CAAL,C;MADhC,Y;K;;;;oCAPJ,Y;MAAA,OAKqB,qDALrB,M;K;oCAAA,Y;M
AAA,c;MAKqB,wD;MALrB,a;K;kCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;gFAyDA,yB;MAAA,yC;MAWsC,yC
;QAAA,wB;UAAW,OAAA,aAAK,KAAL,ChCsLV,K;S;O;MgCjMvC,6B;QAWI,OAAO,oBAAW,+BAAU,IAAV,
GAAgB,uBAAhB,CAAX,C;O;KAXX,C;kFAcA,oB;MAGqE,e;K;I/BtE7C,oB;MAEpB,4B;MAFuD,gB;K;IAEvD,0
B;MAAA,8B;MACI,iBAGmC,SAAK,CAAL,C;MAEnC,iBAGmC,SAAK,EAAL,C;MAEnC,kBAGmC,C;MAEnC,
iBAGkC,E;K;;;IAnBtC,sC;MAAA,qC;QAAA,oB;;MAAA,8B;K;oGAsBA,yB;MD2QA,6B;MC3PA,8C;MAhBA,w
B;QAM0D,OAiBQ,YAAY,IAAK,KAAjB,EAA6B,CD6P5D,cC9QsC,KD8Q5B,KAAL,GAAiB,GAAtB,CC7P4D,
MAA7B,C;O;KAvBlE,C;oGAQA,yB;MCoQA,6B;MD5PA,8C;MARA,wB;QAM2D,OAiBQ,YAAY,IAAK,KAAjB,
EAA6B,CD8P5D,cDvQuC,KCuQ7B,KAAL,GAAiB,KAAtB,CD9P4D,MAA7B,C;O;KAflE,C;gGAQA,yB;MAAA,
8C;MAAA,wB;QAAA,mBAAY,IAAK,KAAjB,EAAuB,KAAM,KAA7B,C;O;KAPlE,C;oGASA,yB;MAgRA,kB
AS6D,sB;MAT7D,+B;MgBjRA,gD;MhhBCA,wB;QAM0D,OgBAS,aAAAkB,ChBBmRhD,eAAW,oBAAL,SAAK,CA
AL,iBAAN,CgBnRgRgD,MAAAlB,EhBhBAgB,KgBAc,KAA9B,C;O;KhBNnE,C;oGAQA,yB;MCoQA,6B;MD5PA,8C
;MARA,wB;QAM0D,OAiBQ,YAAY,IAAK,KAAjB,EAA6B,CD2O5C,cCjP6B,KDiPnB,KAAL,GAAiB,GAAtB,CC3
O4C,MAAX,iAAf,C;O;KARrD,C;0FAGA,yB;MCwOA,6B;MDxOA,8C;MARA,wB;QAM0D,OAiBQ,YAAY,IAAK,KA
Ajb,EAA6B,CC4O5C,cD/O6B,KCwO7B,KAAL,GAAiB,KAAtB,CD5O4C,MAAX,IAAf,C;O;KALrD,C;0FAGA,yB;
MAAA,6B;MAAA,8C;MARA,wB;QAM0D,OAiBQ,YAAY,IAAK,KAAjB,EAA6B,KAAM,KAAX,IAAf,C;O;KAFr
D,C;0FAGA,yB;MA+PA,kBAS6D,sB;MAT7D,+B;MgBjQA,gD;MhhBCA,wB;QAM0D,OgBAS,aAAA+B,ChBBdBsQ
7B,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgBnQgRgD,MAAAlB,EhBhBAgB,KgBAc,KAA9B,C;O;KhBNnE,C;;IAn
DpJ,sC;MAAA,qC;QAAA,oB;;MAAA,8B;K;;;;oCAPJ,Y;MAAA,OAKqB,qDALrB,M;K;oCAAA,Y;MAAA,c;MAKq
b,wD;MALrB,a;K;kCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;;

wB;QAMqD,OAcD,cAAc,IAAd,ED2KjB,cCzL2B,KDyLjB,KAAL,GAAiB,GAAtB,CC3KiB,C;O;KApBpD,C;wF
AOA,yB;MCgLA,6B;MDzKA,kD;MAPA,wB;QAMsD,OAOF,cAAc,IAAd,EC4KjB,cDnL4B,KCmLlB,KAAL,GA
AiB,KAAtB,CD5KiB,C;O;KAbpD,C;wFAOA,yB;MAAA,kD;MAAA,wB;QAMoD,qBAAc,IAAd,EAAoB,KAApB
,C;O;KANpD,C;wFAOA,yB;MA+LA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBAA,wB;QAMsD,OgBAA,ehBk
MjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgBlMiB,EhBAmB,KgBAnB,C;O;KhBNtD,C;kGAQA,yB;MDyJA,6
B;MC7LA,4C;MAoCA,wB;QAMiD,OAxCG,WAAW,IAAX,EDoMjB,cC5J4B,KD4JlB,KAAL,GAAiB,GAAtB,C
CpMiB,C;O;KAkCpD,C;kGAOA,yB;MCmJA,6B;MD9LA,4C;MA2CA,wB;QAMkD,OA/CE,WAAW,IAAX,ECq
MjB,cDtJ6B,KCsJnB,KAAL,GAAiB,KAAtB,CDrMiB,C;O;KAyCpD,C;kGAOA,yB;MAlDA,4C;MAkDA,wB;QA
MgD,OAtDI,WAAW,IAAX,EAsDA,KAtDA,C;O;KAgDpD,C;kGAOA,yB;MAkKA,kBAS6D,sB;MAT7D,+B;Mg
BxNA,8C;MhBsDA,wB;QAMkD,OgB1DI,YhB+NjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgB/NiB,EhB0DoB,
KgB1DpB,C;O;KhBoDtD,C;wFAOA,yB;MD4HA,6B;MCxKA,kD;MDuOJ,0B;MAAA,+B;MC3LI,wB;QAQ6C,O
D8LR,eAAW,OC5OI,cAAc,IAAd,ED2KjB,cC7HmB,KD6HT,KAAL,GAAiB,GAAtB,CC3KiB,CAkLf,KD0DW,C
AAX,C;O;KCtMrC,C;wFASA,yB;MCoHA,6B;MDzKA,kD;MCwOJ,4B;MAAA,iC;MDnLI,wB;QAQ+C,OCsLR,g
BAAY,QD7OC,cAAc,IAAd,EC4KjB,cDrHqB,KCqHX,KAAL,GAAiB,KAAtB,CD5KiB,CA4Lb,KCiDY,CAAZ,C;
O;KD9LvC,C;wFASA,yB;MA9DA,kD;MA8DA,wB;QAQ2C,OAhEL,cAAc,IAAd,EAgEA,KAhEA,C;O;KAwDpD
,C;wFASA,yB;MA+HA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBgEA,wB;QAQ6C,OgBlEL,ehBmMjB,eAAW,o
BAAL,SAAK,CAAL,iBAAN,CgBlMiB,EhBkEoB,KgBlEpB,C;O;KhB0DtD,C;wFASA,yB;MAAA,6B;MAAA,mB;
QAMyC,qBAAK,SAAK,QAAV,C;O;KANzC,C;wFASA,yB;MAAA,6B;MAAA,mB;QAMyC,qBAAK,SAAK,QA
AV,C;O;KANzC,C;gGAQA,yB;MAAA,8C;MAAA,wB;QAE6D,0BAAU,IAAV,EAAgB,KAAhB,C;O;KAF7D,C;
wFAIA,yB;MAAA,6B;MAAA,2B;QAOmD,qBAAK,aAAS,QAAd,C;O;KAPnD,C;wFASA,yB;MAAA,6B;MAAA,
2B;QAOmD,qBAAK,cAAU,QAAf,C;O;KAPnD,C;wFASA,yB;MAAA,6B;MAAA,wB;QAEiD,qBAAK,IAAK,KA
AL,GAAc,KAAM,KAAzB,C;O;KAFjD,C;sFAGA,yB;MAAA,6B;MAAA,wB;QAEgD,qBAAK,IAAK,KAAL,GA
Aa,KAAM,KAAxB,C;O;KAFhD,C;wFAGA,yB;MAAA,6B;MAAA,wB;QAEiD,qBAAK,IAAK,KAAL,GAAc,KA
AM,KAAzB,C;O;KAFjD,C;wEAGA,yB;MAAA,6B;MAAA,mB;QAEgC,qBAAU,CAAL,SAAL,C;O;KAFhC,C;8
EAIA,yB;MAAA,0B;MAAA,mB;QAUmC,OAAK,OAAL,SAAK,C;O;KAVxC,C;gFAWA,yB;MAAA,4B;MAAA,
mB;QAUqC,OAAK,QAAL,SAAK,C;O;KAV1C,C;4EAWA,Y;MASiC,gB;K;8EACjC,yB;MAAA,kBASqD,sB;MA
TrD,mB;QASmC,OAAK,oBAAL,SAAK,CAAL,iB;O;KATnC,C;gFAWA,yB;MDwDJ,0B;MAAA,+B;MCxDI,mB;
QASqC,OD0DA,eAAW,OC1DX,SD0DW,CAAX,C;O;KCnErC,C;kFAUA,yB;MC+CJ,4B;MAAA,iC;MD/CI,mB;
QASuC,OCiDA,gBAAY,QDjDZ,SCiDY,CAAZ,C;O;KD1DvC,C;8EAUA,Y;MAEmC,W;K;gFACnC,yB;MAAA,k
BAS6D,sB;MAT7D,+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,iBAAN,C;O;KATrC,C;gFAWA,yB;
MASA,gD;MATA,mB;QAQqC,OAOE,aAAa,SAAb,C;O;KAfvC,C;kFASA,yB;MAAA,gD;MAAA,mB;QAMuC,o
BAAa,SAAb,C;O;KANvC,C;8BAQA,Y;MAAyC,OArDD,oBAAL,SAAK,CAAL,iBAqDe,W;K;;;;;8BAhWtD,Y;M
AAA,c;MAG2D,qD;MAH3D,a;K;4BAAA,iB;MAAA,2IAG2D,oCAH3D,G;K;sEAoWA,yB;MAAA,6B;MAAA,4B
;QAWwC,qBAAU,SAAV,C;O;KAXxC,C;wEAYA,yB;MAAA,6B;MAAA,4B;QAWyC,qBAAU,SAAV,C;O;KAX
zC,C;wEAYA,yB;MAAA,6B;MAAA,4B;QAUuC,qBAAK,SAAL,C;O;KAVvC,C;wEAWA,yB;MAAA,6B;MAAA
,4B;QAWwC,qBAAK,SAAK,QAAV,C;O;KAXxC,C;uEAaA,yB;MAAA,gD;MAAA,4B;QASyC,oBAAkB,SAAlB,
C;O;KATzC,C;wEAUA,yB;MAAA,gD;MAAA,4B;QAS0C,oBAAa,SAAb,C;O;KAT1C,C;IgC3ZA,4B;MACqB,sB
;K;sCAKjB,iB;MAM4C,OhCuXT,SgCvXS,aAAQ,KAAR,ChCuXT,C;K;sCgCrXnC,wB;MAOI,aAAQ,KAAR,IAA
iB,KhCyQY,K;K;K;iFgCrQH,Y;MAAQ,OAAA,YAAAQ,O;K;mCAE9C,Y;MAC6E,8BAAS,YAAT,C;K;IAGvD,mC;
MAAgC,uB;MAA/B,oB;MACnB,eAAoB,C;K;2CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;4CACvC,Y;MAAwD,Q;
MAA9B,IAAI,eAAAQ,YAAM,OAAlB,C;QAAA,OhCiWK,OhCiWnB,C;;QgCjWmB,2BAAuB,YAAM,WAA7B,C;K;;y
CAGnB,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,C;QAAA,OhCiWK,OhCiWnB,C;;QgCjWmB,2BAAuB,YAA
vB,C;K;;yCAMA,Y;MAAQ,OAAA,Y;K;kCAGJ,Y;MAAkC,OhCiVnB,OhCiVC,ehCjVD,eAAS,IAAAQ,YAAM,OAAf,
C;K;;QgCjVC,OAAO,K;K;;IA/CmB,mC;MAAA,mD;MACgC,mBAAA,Y;MAAA,c;MAAKqB,wD;;

MALrB,a;K;iCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;8EAyDA,yB;MAAA,uC;MAWoC,wC;QAAA,wB;UAAW,
OAAA,aAAK,KAAL,ChC8NV,K;S;O;MgCzOrC,6B;QAWI,OAAO,mBAAU,gCAAS,IAAT,GAAe,sBAAf,CAAV
,C;O;KAXX,C;gFAcA,oB;MAGkE,e;K;I6LnE5C,wC;MAsBlB,iC;MAtBsD,2BAAgB,KAAhB,EAAuB,YAAvB,E
AAqC,CAArC,C;K;kFAC7B,Y;MAAQ,iB;K;yFACD,Y;MAAQ,gB;K;2CAExC,iB;MAA8C,W7NwCoB,Y6NxCp
B,U7NwCqC,KAAjB,E6NxCX,K7NwCwC,KAA7B,C6NxCpB,K;MAAA,S;QAAkB,O7NwCE,Y6NxCF,K7NwC
mB,KAAjB,E6NxCO,S7NwCsB,KAA7B,C6NxCF,K;;MAAlB,W;K;kCAE9C,Y;MAKkC,O7NiCgC,Y6NjChC,U7
NiCiD,KAAjB,E6NjCxB,S7NiCqD,KAA7B,C6NjChC,I;K;iCAElC,iB;MAEY,UAAwB,M;MADhC,2CAAuB,kBA
Aa,KAAM,UAAnB,KACf,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAd,QAAxB,CADe,CAAvB,C;K;m
CAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,MAAK,U7NyQA,K6NzQL,QAAqB,S7NyQhB,K6NzQL,I;K;
mCAE5B,Y;MAAkC,OAAE,UAAF,qBAAU,S;K;IAE5C,+B;MAAA,mC;MACI,aAC8B,cAAU,4BAAK,UAAf,EA
A0B,4BAAK,UAA/B,C;K;;;IAFlC,2C;MAAA,0C;QAAA,yB;;MAAA,mC;K;;IAYJ,oD;MA4CI,uC;MAtCI,IAAI,S
AAQ,CAAZ,C;QAAuB,MAAa,gCAAyB,wBAAzB,C;MACpC,IAAI,SAAQ,WAAZ,C;QAA2B,MAAa,gCAAyB,w
EAAzB,C;MAG5C,aAGyB,K;MAEzB,YAGwB,4BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;C;MAExB,YA
GuB,I;K;yCAEvB,Y;MAAgD,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAEhD,Y;MAMqC,OA
AI,YAAO,CAAX,G7NvB6B,Y6NuBf,U7NvBgC,KAAjB,E6NuBP,S7NvBoC,KAA7B,C6NuBf,IAAd,G7NvB6B,
Y6NuBG,U7NvBc,KAAjB,E6NuBW,S7NvBkB,KAA7B,C6NuBG,I;K;uCAErE,iB;MAEY,UAAwB,M;MADhC,i
DAA6B,kBAAa,KAAM,UAAnB,KACrB,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAd,QAAxB,KAA8
C,cAAQ,KAAM,KADvC,CAA7B,C;K;yCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,OAAM,MAAK,U7NNi
NN,K6NjNC,QAAqB,S7NiNtB,K6NjNC,IAAN,SAAgD,SAAhD,I;K;yCAE5B,Y;MAAkC,OAAI,YAAO,CAAX,G
AAgB,UAAF,qBAAU,SAAV,cAAqB,SAAnC,GAAgD,UAAF,2BAAgB,SAAhB,eAA4B,CAAC,SAAD,IAA5B,C;
K;IAEhF,qC;MAAA,yC;K;kEACI,sC;MAQ2F,2BAAgB,UAAhB,EAA4B,QAA5B,EAAsC,C;K;;;IAT/F,iD;
MAAA,gD;QAAA,+B;;MAAA,yC;K;;IAoBiC,oD;MAAuC,uB;MACxE,sBAA2B,I;MAC3B,iBAAmC,OAAO,CA
A1C,G7NxDkE,Y6NwDrB,K7NxDsC,KAAjB,E6NwDZ,I7NxDyC,KAA7B,C6NwDrB,KAA7C,G7NxDkE,Y6NwD
DF,K7NxDmB,KAAjB,E6NwDO,I7NxDsB,KAA7B,C6NwDF,K;MAChE,c7N2RmC,S6N3RhB,I7N2RgB,C;M6N
1RnC,cAAuB,cAAJ,GAAa,KAAb,GAAwB,mB;K;gDAE3C,Y;MAAkC,qB;K;iDAElC,Y;MACI,YAAY,W;MACZ,
IAAI,6BAAS,mBAAT,QAAJ,C;QACI,IAAI,CAAC,cAAL,C;QUAAc,MAAa,6B;QAC3B,iBAAAU,K;;QAAEV,c7NlD6
C,S6NkD7C,W7NlDuD,KAAK,G6NkDpD,W7NlD+D,KAAX,IAAf,C;;;M6NoNoDjD,OAAO,K;K;;;IC3Hf,yB;K;mCA
II,Y;MAAA4B,uB;K;;IAMhC,0B;K;oCAII,Y;MAAA4B,wB;K;;IAMhC,wB;K;kCAII,Y;MAAA4B,sB;K;;IAMhC,yB;K;
mCAII,Y;MAAA4B,uB;K;;I9M5BP,qB;MAErB,6B;MAFwD,gB;K;IAExD,2B;MAAA,+B;MACI,iBAGoC,a;MAEp
C,iBAGoC,c;MAEpC,kBAGmCC,C;MAEnC,iBAGkC,E;K;;;IAnBtC,uC;MAAA,sC;QAAA,qB;;MAAA,+B;K;sGAs
BA,yB;MjBqRA,WAS6D,wB;MAT7D,+B;MiB7PA,gD;MAxBA,wB;QAM0D,OAyBS,aAAa,IAAK,KAAlB,EAA
8B,CjB+P5D,eAAW,oBiBxRyB,KjBwR9B,KAAK,CAAL,UAAN,CiB/P4D,MAA9B,C;O;KA/BnE,C;sGAQA,yB;
Mf8QA,aAS6D,0B;MAT7D,+B;Me9PA,gD;MAxBA,wB;QAM2D,OAyBS,aAAa,IAAK,KAAlB,EAA8B,CfgQ5D,
eAAW,oBejR0B,KfiR/B,KAAK,CAAL,UAAN,CehQ4D,MAA9B,C;O;KA/BnE,C;sGAQA,yB;MhByRA,kBAS6D
,sB;MAT7D,+B;MgB9PA,gD;MAxBA,wB;QAMyD,OAyBS,aAAa,IAAK,KAAlB,EAA8B,ChBBmR5D,eAAW,oBg
BzR2B,KhByRhB4R7B,KAAK,CAAL,UAAN,CgBBAAN,CgBnR4D,MAA9B,C;O;KA/BnE,C;kGAQA,yB;MAAA,g
D;MAAA,wB;QAOmE,oBAAAa,IAAK,KAAAlB,EAAwB,KAAM,KAA9B,C;O;KAPnE,C;4FASA,yB;MjBoPA,W
AS6D,wB;MAT7D,+B;MiBpBpPA,wB;QAEuD,OASA,eAAM,IAAK,KAAK,KAAAW,CjBkP7C,eAAW,oBiB3PiB
3PiB,KjB2PtB,KAAK,CAAL,UAAN,CgBAAN,CiBAAL,UAAN,CgBlP6C,MAAAhB,C;O;KAXvD,C;4FASA,yB;Mf
kPA,aAS6D,0B;MAT7D,+B;MelpPA,wB;QAEwD,OASA,eAAM,IAAK,KAAK,KAAAW,CfgP7C,eAAW,oBezPk
B,KfyPvB,KAAK,CAAL,UAAN,CehP6C,MAAAhB,C;O;KAXvD,C;4FASA,yB;MhBkRkQA,kBAS6D,sB;MAT7D,
+B;MgBlplp6PA,wB;QAEsD,OASA,eAAM,IAAK,KAAK,KAAAW,ChBgP7C,eAAW,oBgBzPmB,KhByPhByP
/C,eAAW,oBgBzP2B,KhByPhB5PkB,KAAK,CAAL,UAAN,CgBAAN,C

B4PvB,KAAK,CAAL,iBAAN,CgBzP+C,MAAZ,CAAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;QA
EwD,sBAAM,IAAK,KAAK,UAAM,KAAM,KAAZ,CAAhB,C;O;KAFxD,C;8FAIA,yB;MjB0NA,WAS6D,wB;M
AT7D,+B;MiB1NA,wB;QAEwD,OASA,eAAM,IAAK,KAAK,UAAY,CjBwN/C,eAAW,oBiBjOmB,KjBiOxB,KA
AK,CAAL,UAAN,CiBxN+C,MAAZ,CAAhB,C;O;KAXxD,C;8FAGA,yB;MfwNA,aAS6D,0B;MAT7D,+B;MexN
A,wB;QAEyD,OAMD,eAAM,IAAK,KAAK,UAAY,CfyN/C,eAAW,oBe/NoB,Kf+NzB,KAAK,CAAL,YAAN,Cez
N+C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;MhBwOA,kBAS6D,sB;MAT7D,+B;MgBxOA,wB;QAEuD,OA
GC,eAAM,IAAK,KAAK,UAAY,ChB4O/C,eAAW,oBgB/OkB,KhB+OvB,KAAK,CAAL,iBAAN,CgB5O+C,MAA
Z,CAAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;QAEwD,sBAAM,IAAK,KAAK,UAAM,KAAM,K
AAZ,CAAhB,C;O;KAFxD,C;0FAIA,yB;MjB6MA,WAS6D,wB;MAT7D,+B;MiBpMA,8C;MATA,wB;QAEsD,O
ASA,YAAY,IAAZ,EjB2MjB,eAAW,oBiBpMoB,Ne,KjBoNpB,KAAK,CAAL,UAAN,CiB3MiB,C;O;KAXtD,C;0FAGA
,yB;Mf2MA,aAS6D,0B;MAT7D,+B;MerMA,8C;MANA,wB;QAEuD,OAMD,YAAY,IAAZ,Ef4MjB,eAAW,oBel
NgB,KfkNrB,KAAK,CAAL,YAAN,Ce5MiB,C;O;KARtD,C;0FAGA,yB;MhB2NA,kBAS6D,sB;MAT7D,+B;MgB
xNA,8C;MAHA,wB;QAEqD,OAGC,YAAY,IAAZ,EhB+NjB,eAAW,oBgBlOc,KhBkOnB,KAAK,CAAL,iBAAN,
CgB/NiB,C;O;KALtD,C;0FAGA,yB;MAAA,8C;MAAA,wB;QAEsD,mBAAY,IAAZ,EAAkB,KAAlB,C;O;KAFtD
,C;0FAIA,yB;MjBgMA,WAS6D,wB;MAT7D,+B;MiB3KA,oD;MArBA,wB;QAMsD,OAqBA,eAAe,IAAf,EjB8Kj
B,eAAW,oBiBnMoB,KjBmMpB,KAAK,CAAL,UAAN,CiB9KiB,C;O;KA3BtD,C;0FAOA,yB;Mf0LA,aAS6D,0B;M
AT7D,+B;Me5KA,oD;MAdA,wB;QAMuD,OAcD,eAAe,IAAf,Ef+KjB,eAAW,oBe7LgB,Kf6LrB,KAAK,CAAL,Y
AAN,Ce/KiB,C;O;KApBtD,C;0FAOA,yB;MhBsMA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MAPA,wB;QAMqD,
OAOC,eAAe,IAAf,EhB+MjB,eAAW,oBgBzMc,KhByMnB,KAAK,CAAL,iBAAN,CgBlMiB,C;O;KAbtD,C;0FAO
A,yB;MAAA,oD;MAAA,wB;QAMsD,sBAAe,IAAf,EAAqB,KAArB,C;O;KANtD,C;oGAQA,yB;MjBmKA,WAS6
D,wB;MAT7D,+B;MiBpKA,8C;MAiCA,wB;QAMkD,OArCI,YAAY,IAAZ,EjB2MjB,eAAW,oBiBtKgB,KjBsKr
B,KAAK,CAAL,UAAN,CiB3MiB,C;O;KA+BtD,C;oGAOA,yB;Mf6JA,aAS6D,0B;MAT7D,+B;MerMA,8C;MAw
CA,wB;QAMmD,OA5CG,YAAY,IAAZ,Ef4MjB,eAAW,oBehKiB,KfgKtB,KAAK,CAAL,YAAN,Ce5MiB,C;O;K
AsCtD,C;oGAOA,yB;MhByKA,kBAS6D,sB;MAT7D,+B;MgBxNA,8C;MA+CA,wB;QAMiD,OAnDK,YAAY,IA
AZ,EhB+NjB,eAAW,oBgB5Ke,KhB4KpB,KAAK,CAAL,iBAAN,CgB/NiB,C;O;KA6CtD,C;oGAOA,yB;MAtDA,
8C;MAsDA,wB;QAMkD,OA1DI,YAAY,IAAZ,EA0DA,KA1DA,C;O;KAoDtD,C;0FAQA,yB;MjBsIA,WAS6D,w
B;MAT7D,+B;MiB3KA,oD;MjB4OJ,0B;MAAA,+B;MiBvMI,wB;QAQ6C,OjB0MP,eAAW,OiBjPK,eAAe,IAAf,E
jB8KjB,eAAW,oBiBvMIX,KAAK,CAAL,UAAN,CiB9KiB,CA4KjB,KjBqEY,SAAX,C;O;KiBlNtC,C;0FA
SA,yB;Mf8HA,aAS6D,0B;MAT7D,+B;Me5KA,oD;Mf6OJ,4B;MAAA,iC;Me/LI,wB;QAQ+C,OfkMP,eAAW,Qel
PE,eAAe,IAAf,Ef+KjB,eAAW,oBe/LkB,Kf+LrB,KAAK,CAAL,YAAN,Ce/KiB,CA4KjB,KfkMY,SAAZ,C;O;Ke1MxC
,C;0FASA,yB;MhB0IA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBwIJ,6B;MgBwEI,wB;QAQ2C,OhB8HP,cgBvM
QkB,KhBuMT,eAAe,IAAf,EhB+MjB,eAAW,oBgBzMIX,KhByMR,KAAK,CAAL,iBAAN,CAgMnB,KhBuEW,QAAV
,C;O;KgBtNpC,C;0FASA,yB;MAhMA,oD;MAgMA,wB;QAQ6C,OAhMP,eAAe,IAAf,EAgME,KAhME,C;O;KA0LtD
,C;0EAUA,yB;MAAA,+B;MAAA,mB;QAM0C,sBAAM,SAAK,MAAX,C;O;KAN1C,C;0EAQA,yB;MAAA,+B;
MAAA,mB;QAM0C,sBAAM,SAAK,MAAX,C;O;KAN1C,C;kGAQA,yB;MAAA,gD;MAAA,wB;QAE+D,2BAA
W,IAAX,EAAiB,KAAjB,C;O;KAF/D,C;0FAIA,yB;MAAA,+B;MAAA,2B;QAOoD,sBAAM,oBAAS,QAAT,CAA
N,C;O;KAPpD,C;0FASA,yB;MAAA,+B;MAAA,2B;QAOoD,sBAAM,6BAAU,QAAV,CAAN,C;O;KAPpD,C;0F
ASA,yB;MAAA,+B;MAAA,wB;QAEmD,sBAAM,IAAK,KAAL,KAAc,KAAM,KAApB,CAAN,C;O;KAFnD,C;w
FAGA,yB;MAAA,+B;MAAA,wB;QAEkD,sBAAM,IAAK,KAAL,IAAa,KAAM,KAAnB,CAAN,C;O;KAFlD,C;0F
AGA,yB;MAAA,+B;MAAA,wB;QAEmD,sBAAM,IAAK,KAAL,KAAc,KAAM,KAApB,CAAN,C;O;KAFnD,C;0
EAGA,yB;MAAA,+B;MAAA,mB;QAEiC,sBAAM,SAAK,MAAX,C;O;KAFjC,C;gFAIA,yB;MAAA,0B;MAAA,
mB;QAUmC,OAAK,OAAL,SAAK,S;O;KAVxC,C;kFAWA,yB;MAAA,4B;MAAA,mB;QAUqC,OAAK,QAAL,S
AAK,S;O;KAV1C,C;8EAWA,Y;MAUiC,OAAA,SAAK,Q;K;gFACtC,Y;MASmC,gB;K;kFAEnC,yB;MjBmEJ,0B;
MAAA,+B;MiBnEI,mB;QASqC,OjBqEP,eAAW,OiBrEIX,KAAK,CAAL,oBAAN,CAAN,C;O;KAR9D,C;kFA
SA,yB;MjBmEJ,4B;MAAA,iC;MiBnEI,mB;QASmC,OjBqEP,eAAW,QiBrEIX,KAAK,CAAL,qBAAN,CAAN,C;O;KA
R9D,C;oFASA,yB;MA5EJ,oD;MA4EA,wB;QASmC,OA5EP,eAAe,IAAf,EA4EE,KA5EE,C;O;KAsE9D,C;0FAQA
,yB;MA5FJ,oD;MA4FA,wB;QASmC,OA5FP,eAAe,IAAf,EA4FE,KA5FE,C;O;KAsF9D,C;0FAQA,yB;MAAA,+B;
MAAA,wB;QASmC,sBAAM,IAAK,KAAL,KAAc,KAAM,KAApB,CAAN,C;O;KATnD,C;0EAUA,yB;MAAA,+B;M
AAA,mB;QASiC,sBAAM,SAAK,MAAX,C;O;KATjC,C;oFAUmC,OAAK,QAAL,SAAK,S;K;8EACxC,Y;MAUiC,
OAAA,SAAK,Q;K;gFACtC,Y;MASmC,gB;K;kFAE,yB;MAAA,+B;MAAA,mB;QASiC,sBAAM,SAAK,MAAX,C;
O;KATjC,C;gFAUmC,OAAK,OAAL,SAAK,S;K;;;;;+BAnW7C,Y;MAAA,c;MAG4D,qD;MAH5D

,a;K;6BAAA,iB;MAAA,2IAG4D,oCAH5D,G;K;wEAuWA,yB;MAAA,+B;MAAA,4B;QAW0C,sBAAW,oBAAL,
SAAK,CAAX,C;O;KAX1C,C;0EAYA,yB;MAAA,+B;MAAA,4B;QAW2C,sBAAW,oBAAL,SAAK,CAAX,C;O;K
AX3C,C;0EAYA,yB;MAAA,+B;MAAA,4B;QAWyC,sBAAW,oBAAL,SAAK,CAAX,C;O;KAXzC,C;0EAYA,yB;
MAAA,+B;MAAA,4B;QAU0C,sBAAM,SAAN,C;O;KAV1C,C;yEAYA,yB;MAAA,kD;MAAA,4B;QAS2C,qBAA
mB,SAAnB,C;O;KAT3C,C;0EAUA,yB;MAAA,kD;MAAA,4B;QAS4C,qBAAc,SAAd,C;O;KAT5C,C;IiB9ZA,6B;
MACqB,sB;K;uCAKjB,iB;MAM6C,OjBsYP,UiBtYO,aAAQ,KAAR,CjBsYP,C;K;uCiBpYtC,wB;MAOI,aAAQ,K
AAR,IAAiB,KjBoRc,K;K;kFiBhRL,Y;MAAQ,OAAA,YAAQ,O;K;oCAE9C,Y;MAC8E,+BAAS,YAAT,C;K;IAGx
D,oC;MAAiC,wB;MAAhC,oB;MACnB,eAAoB,C;K;4CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;8CACvC,Y;MAA
yD,Q;MAA9B,IAAI,eAAQ,YAAM,OAAlB,C;QAAA,OjBgXO,UiBhXiB,aAAM,mBAAN,EAAM,2BAAN,OjBgX
jB,C;;QiBhX+C,MAAM,2BAAuB,YAAM,WAA7B,C;K;;0CAG3F,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,QA
AJ,C;QAAiC,OAAO,K;MAExC,OAAe,WAAR,YAAQ,EAAS,OjB8PO,KiB9PhB,C;K;+CAGnB,oB;MACY,Q;MA
A2B,gBAA3B,gE;MAA2B,c;;QhB0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;;QA
CrB,6B;QAAhB,OAAgB,gBAAhB,C;UAAgB,2B;UgB1nD6B,2BhB0nDR,OgB1nDQ,Q;QUAAA,W;YAAuB,oBAA
R,YAAQ,EhB0nD/B,ODh4CF,KiB1PiC,C;;UhB0nD9C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;;QAC/C,aAAO,K;YAAP,e;;;QAC/C,C;aAAO
,I;;;MgB3nDH,iB;K;mCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,sC;MAAA,oD;MAC
gC,uBAAK,iBAAU,IAAV,CAAL,C;MADhC,Y;K;;;;oCAPJ,Y;MAAA,OAKqB,qDALrB,M;K;oCAAA,Y;MAAA,
c;MAKqB,wD;MALrB,a;K;kCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;gFAyDA,yB;MAAA,yC;MAWsC,yC;QAA
A,wB;UAAW,OAAA,aAAK,KAAL,CjByOV,K;S;O;MiBpPvC,6B;QAWI,OAAO,oBAAW,kBAAU,IAAV,EAAg
B,uBAAhB,CAAX,C;O;KAXX,C;kFAcA,oB;MAGqE,e;K;I8LnE9C,2C;MAsBnB,kC;MAtByD,4BAAiB,KAAjB,
EAAwB,YAAxB,K;K;qFAC/B,Y;MAAQ,iB;K;4FACD,Y;MAAQ,gB;K;8CAEzC,iB;MAA+C,W;K;MgDoB,a+MhD
pB,U/MgDsC,KAAlB,E+MhDX,K/MgDyC,KAA9B,C+MhDpB,K;MAAA,S;QAAkB,O/MgDE,a+MhDF,K/MgDo
B,KAAlB,E+MhDO,S/MgDuB,KAA9B,C+MhDF,K;;MAAlB,W;K;qCAE/C,Y;MAKkC,O/MyCiC,a+MzCjC,U/M
yCmD,KAAlB,E+MzCzB,S/MyCuD,KAA9B,C+MzCjC,I;K;oCAElC,iB;MAEY,UAAwB,M;MADhC,8CAAwB,k
BAAa,KAAM,UAAnB,KAAhB,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAd,QAAxB,CADgB,CAAxB
,C;K;sCAGJ,Y;MACI,OAAI,cAAJ,GAAAe,EAAAf,GAAAwB,M/M0QK,CArCkB,U+MrOjB,U/MqOO,K+MqO4B,
CAVzB,U+M3NP,U/M2NNa,yB+M3NH,E/M2NG,CAAN,CAUyB,MAApB,CAAN,CAqClB,MAAK,Q+M1QV,Q
/M0QK,CArCkB,U+MrOjB,U/MqOOb,S+MqO4B,CAVzB,U+M3N6B,S/M2NvB,yB+M3NgC,E/M2NhC,CAA
N,CAUyB,MAApB,CAAN,CAqClB,MAAK,Q+M1QV,I;K;sCAE5B,Y;MAAkC,OAAE,UAAF,qBAAU,S;K;IAE5
C,gC;MAAA,oC;MACI,aAC+B,iBAAAW,6BAAM,UAAjB,EAAA4B,6BAAM,UAAlC,C;K;;;IAFnC,4C;MAAA,2C;
QAAA,0B;;MAAA,oC;K;;IAYJ,qD;MA4CI,wC;MAtCI,IAAI,gBAAJ,C;QAAwB,MAAa,gCAAyB,wBAAAzB,C;M
ACrC,IAAI,sCAAJ,C;QAA4B,MAAa,gCAAyB,yEAAzB,C;MAG7C,aAAG0B,K;MAE1B,YAGyB,4BAA0B,KAA1
B,EAAAiC,YAAjC,uBAAAO,K;;;IANYJ,qD;MA4CI,iD;QAAA,25B;;MA4CI,2C;K;;IAYJ,qD;MAMqC,OAAA,IAAK,
QAAQ,OAAb,KAAqB,C;K;;;;oCAPJ,Y;MAAA,OAKqB,qDALrB,M;K;oCAAA,Y;MAAA,
c;MAAA,oC;K;;IAWJ,iC;MACI,aC3BiBVmB,6B;;MCAAA,0C;QAAA,0B;;MAAA,iD;K;;IAYJ,iD;QAAA,25b;;;IATnG,
3B;iBAAU,K;;QAEV,c/M/C+C,U+M/C,U/M+C,C/M,W/M/C0D,K/MAAK,K+M/CvD,W/M/C,CkE,KAAX,CAAhB,C;;M+MADn

D,OAAO,K;K;;wEC7Hf,yB;MAAA,8C;MAAA,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;wE
AUA,yB;MAAA,8C;MAAA,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;wEAUA,yB;MAAA,8
C;MAAA,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;wEAUA,yB;MAAA,8C;MAAA,uB;QAO
I,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;oFC7BA,yB;MAAA,gD;MAAA,4B;QAM6C,OAAQ,ajO+R
hB,ciO/RgB,C;O;KANrD,C;oGAQA,yB;M/GwCA,iB;M+GxCA,4B;QAMqD,O/GwCM,MAAO,OlH+O7B,ckH/O
6B,C;O;K+G9ClE,C;sGAQA,yB;MAAA,kE;MAAA,4B;QAMsD,OAAQ,sBjO+QzB,ciO/QyB,C;O;KAN9D,C;8FA
QA,yB;MAAA,0D;MjOwWA,6B;MiOxWA,4B;QAOmD,OjO2WZ,ciO3WoB,kBjOsQtB,ciOtQsB,CjO2WpB,C;O;
KiOlXvC,C;4FASA,yB;MAAA,wD;MjO+VA,6B;MiO/VA,4B;QAOkD,OjOkWX,ciOlWmB,iBjO6PrB,ciO7PqB,C
jOkWnB,C;O;KiOzWvC,C;gFASA,yB;MAAA,4C;MjOsVA,6B;MiOtVA,sC;QAayD,OjOmVlB,ciOnV0B,WjO8O
5B,ciO9O4B,EAAW,QAAX,CjOmV1B,C;O;KiOhWvC,C;kFAgBA,yB;MAAA,8C;MjOsUA,6B;MiOtUA,sC;QAa
0D,OjOmUnB,ciOnU2B,YjO8N7B,ciO9N6B,EAAY,QAAZ,CjOmU3B,C;O;KiOhVvC,C;oFAgBA,yB;MAAA,gD;
MAAA,4B;QAM8C,OAAS,ajNgOhB,ciNhOgB,C;O;KANvD,C;oGAQA,yB;MAAA,gE;MAAA,4B;QAMsD,OAA
S,qBjNwNxB,ciNxNwB,C;O;KAN/D,C;sGAQA,yB;MAAA,kE;MAAA,4B;QAMuD,OAAS,sBjNgNzB,ciNhNyB,
C;O;KANhE,C;8FAQA,yB;MAAA,0D;MjN6SA,+B;MiN7SA,4B;QAOqD,OjNgTX,eiNhToB,kBjNuMvB,ciNvMu
B,CjNgTpB,C;O;KiNvT1C,C;4FASA,yB;MAAA,wD;MjNoSA,+B;MiNpSA,4B;QAOoD,OjNuSV,eiNvSmB,iBjN
8LtB,ciN9LsB,CjNuSnB,C;O;KiN9S1C,C;+EASA,yB;MAAA,4C;MjN2RA,+B;MiN3RA,sC;QAa2D,OjNwRjB,ei
NxR0B,WjN+K7B,ciN/K6B,EAAW,QAAX,CjNwR1B,C;O;KiNrS1C,C;iFAeA,yB;M/GgEA,4C;MlG4MA,+B;Mi
N5QA,sC;QAa4D,OjNyQlB,ekGzMuB,WlGgG1B,ckGhG0B,EAAW,C+GhEK,Q//GgEL,IAAX,ClGyMvB,C;O;Ki
NtR1C,C;oFAeA,yB;MlOwJI,6B;MkO1SJ,gD;MAkJA,4B;QAM8C,OAlJO,ajO+RhB,CDcE,cAAU,cAAL,GAAiB,
GAAtB,CCdF,MiO/RgB,C;O;KA4IrD,C;oGAQA,yB;M/G1GA,iB;M+G0GA,4B;QAMsD,O/G1GK,MAAO,OnHu
M3B,c2N1Ge,GAAY,GxG7FA,CwG6Fb,GAA6C,EAA7C,I;O;KOOrD,C;sGAQA,yB;MPbA,kE;MOaA,4B;QAMu
D,OPbkB,sB3NkGlC,c2NlGgB,GAAW,GAAO,C;O;KOOzE,C;8FAQA,yB;MAAA,0D;MlO+LA,0B;MAAA,+B;M
kO/LA,4B;QAOqD,OlOmMZ,eAAW,OkOnMS,kBlOgGnB,cAAL,GAAiB,GkOhGO,ClOmMT,CAAX,C;O;KkO1
MzC,C;4FASA,yB;MAAA,wD;MlOsLA,0B;MAAA,+B;MkOtLA,4B;QAOoD,OlO0LX,eAAW,OkO1LQ,iBlOuFl
B,cAAL,GAAiB,GkOvFM,ClO0LR,CAAX,C;O;KkOjMzC,C;gFAUA,yB;MAAA,4C;MlOqJA,+B;MkOrJA,sC;Q
Aa2D,OlOkJjB,ekOlJ0B,WlOmD7B,ckOnD6B,EAAW,QAAX,ClOkJ1B,C;O;KkO/J1C,C;kFAeA,yB;MAAA,8C;
MlOsIA,+B;MkOtIA,sC;QAa4D,OlOmIlB,ekOnI2B,YlOoC9B,ckOpC8B,EAAY,QAAZ,ClOmI3B,C;O;KkOhJ1C,
C;oFAeA,yB;MhOgFI,6B;MgO3SJ,gD;MA2NA,4B;QAM+C,OA3NM,ajO+RhB,CCeE,cAAU,cAAL,GAAiB,KA
AtB,CDfF,MiO/RgB,C;O;KAqNrD,C;oGAQA,yB;M/GnLA,iB;M+GmLA,4B;QAMuD,O/GnLI,MAAO,OjHkNzB,
cyN3CpC,GAAY,KxGvKiD,CwGuK9D,GAA+C,EAA7C,I;O;KOMJ,C;sGAQA,yB;MPZA,kE;MOYA,4B;QAMw
D,OPZoB,sBzNmCnC,cyNnCe,GAAW,KAAS,C;O;KOM5E,C;8FAQA,yB;MAAA,0D;MhOuHA,4B;MAAA,iC;M
gOvHA,4B;QAOuD,OhO2HZ,gBAAY,QgO3HQ,kBhOwBrB,cAAL,GAAiB,KgOxBS,ChO2HR,CAAZ,C;O;KgOl
I3C,C;4FASA,yB;MAAA,wD;MhO8GA,4B;MAAA,iC;MgO9GA,4B;QAOsD,OhOkHX,gBAAY,QgOlHO,iBhOep
B,cAAL,GAAiB,KgOfQ,ChOkHP,CAAZ,C;O;KgOzH3C,C;gFAUA,yB;MAAA,4C;MhOyFA,iC;MgOzFA,sC;QA
a6D,OhOsFhB,gBgOtF0B,WhOX9B,cgOW8B,EAAW,QAAX,ChOsF1B,C;O;KgOnG7C,C;kFAeA,yB;MAAA,8C;
MhO00EA,iC;MgO1EA,sC;QAa8D,OhOuEjB,gBgOvE2B,YhO1B/B,cgO00B+B,EAAY,QAAZ,ChOuE3B,C;O;KgO
pF7C,C;ICtRA,qC;MAEI,SlOuIoD,ckOvI3C,ClOuI2C,EkOvIvC,ClOuIuC,C;MkOtIpD,SlOsIoD,ckOtI3C,ClOsI2C,
EkOtIvC,ClOsIuC,C;MkOrIpD,OlOmDkE,YkOnDvD,ElOmDwE,KAAjB,EkOnDjD,ElOmD8E,KAA7B,CkOnDv
D,KAAX,GlOkFsD,SkOlFjC,ElOkF2C,KAAK,GkOlF3C,ElOkFuD,KAAZ,IAAf,CkOlFtD,GlOqEqD,SAAU,CAaT
,SkOlFpB,ElOkF8B,KAAK,GkOlF9B,ElOkF0C,KAAZ,IAAf,CAbS,MAAK,GkOrExB,ClOqEmC,KAAX,IAAf,C;
K;IkOlEzD,qC;MACI,SlNwIsD,ekNxI7C,ClNwI6C,EkNxIzC,ClNwIyC,C;MkNvItD,SlNuIsD,ekNvI7C,ClNuI6C,E
kNvIzC,ClNuIyC,C;MkNtItD,OlNqDmE,akNrDxD,ElNqD0E,KAAlB,EkNrDlD,ElNqDgF,KAA9B,CkNrDxD,KA
AX,GlN+EwD,UkN/EnC,ElN+E8C,KAAK,UkN/E9C,ElN+E0D,KAAZ,CAAhB,CkN/ExD,GlNkEuD,UAAW,CAa
V,UkN/EtB,ElN+EiC,KAAK,UkN/EjC,ElN+E6C,KAAZ,CAAhB,CAbU,MAAK,KkNlE3B,ClNkEsC,KAAX,CAA
hB,C;K;IkN/D3D,uD;MAmBI,WAAO,CAAP,C;QAD8E,OlOwBZ,YkOvBlD,KlOuBmE,KAAjB,EkOvBzC,GlOuB
sE,KAA7B,CkOvBlD,KAD8D,GACHd,GADgD,GlOuDxB,SkOtDf,GlOsDyB,KAAK,GkOtDxB,mBAAiB,GAAjB
,EAAsB,KAAtB,ElO2WV,SkO3WuC,IlO2WvC,CkO3WU,ClOsDoC,KAAZ,IAAf,C;akOrDtD,WAAO,CAAP,C;Q
AF8E,OlOwBZ,YkOtBlD,KlOsBmE,KAAjB,EkOtBzC,GlOsBsE,KAA7B,CkOtBlD,KAF8D,GAEHd,GAFgD,GlO

0CzB,SkOxCd,GlOwCwB,KAAK,GkOxCvB,mBAAiB,KAAjB,EAAwB,GAAxB,ElO0WV,SkO1WwC,CAAC,IA AD,IlO0WxC,CkO1WU,ClOwCkC,KAAX,IAAf,C;:QkOvC7C,MAAa,gCAAyB,eAAzB,C;K;IAGzB,uD;MAmBI, sBAAO,CAAP,C;QADkF,OlNQf,akNPnD,KlNOqE,KAAlB,EkNP1C,GlNOwE,KAA9B,CkNPnD,KADkE,GACp D,GADoD,GlNkC1B,UkNjCjB,GlNiC4B,KAAK,UkNjC3B,mBAAiB,GAAjB,EAAsB,KAAtB,ElNkWP,UkNlWo C,IlNkWpC,CkNlWO,ClNiCuC,KAAZ,CAAhB,C;akNhCxD,sBAAO,CAAP,C;QAFkF,OlNQf,akNNnD,KlNMqE, KAAlB,EkNN1C,GlNMwE,KAA9B,CkNNnD,KAFkE,GAEpD,GAFoD,GlNqB3B,UkNnBhB,GlNmB2B,KAAK, KkNnB1B,mBAAiB,KAAjB,EAAwB,GAAxB,ElNiWP,UkNjWsC,IAAD,alNiWrC,CkNjWO,ClNmBqC,KAAX,C AAhB,C;:QkNlB/C,MAAa,gCAAyB,eAAzB,C;K;IjOlDC,sB;MAEtB,8B;MAFyD,gB;K;IAEzD,4B;MAAA,gC;M ACI,iBAGqC,WAAO,CAAP,C;MAErC,iBAGqC,WAAO,MAAP,C;MAErC,kBAGmC,C;MAEnC,iBAGkC,E;K;;;I AnBtC,wC;MAAA,uC;QAAA,sB;;MAAA,gC;K;wGAsBA,iB;MAM0D,OAAa,0BA6OjC,SAAL,GAAiB,KA7OqB ,EAAU,KF4O3C,KAAL,GAAiB,GE5OqB,C;K;oGAEvE,iB;MAOoE,OAAa,0BAoO3C,SAAL,GAAiB,KApO+B,E AAU,KAoOrD,KAAL,GAAiB,KApO+B,C;K;wGAEjF,yB;MA2PA,6B;MD5PA,8C;MCCA,wB;QAMyD,ODAS,Y AAiB,CC8PhD,cAAU,SAAL,GAAiB,KAAtB,CD9PgD,MAAjB,ECAe,KDAc,KAA7B,C;O;KCNlE,C;wGAQA,yB ;MA6PA,aAS6D,0B;MAT7D,+B;Me9PA,gD;MfCA,wB;QAM0D,OeAS,aAAkB,CfgPhD,eAAW,oBAAL,SAAK, CAAL,YAAN,CehPgD,MAAlB,EfAgB,KeAc,KAA9B,C;O;KfNnE,C;8FAQA,yB;MA2OA,6B;MA3OA,wB;QAE sD,ODMD,cAAU,CC4O5B,cAAU,SAAL,GAAiB,KAAtB,CD5O4B,MAAK,GAAW,CD2O5C,cEjPsC,KFiP5B,K AAL,GAAiB,GAAtB,CC3O4C,MAAX,IAAf,C;O;KCRrD,C;8FAGA,yB;MAwOA,6B;MAxOA,wB;QAEuD,ODG F,cAAU,CC4O5B,cAAU,SAAL,GAAiB,KAAtB,CD5O4B,MAAK,GAAW,CC4O5C,cA/OuC,KA+O7B,KAAL,G AAiB,KAAtB,CC5O4C,MAAX,IAAf,C;O;KCLrD,C;8FAGA,yB;MAqOA,6B;MArOA,wB;QAEqD,ODAA,cAAU ,CC4O5B,cAAU,SAAL,GAAiB,KAAtB,CD5O4B,MAAK,GCAI,KDAO,KAAX,IAAf,C;O;KCFrD,C;8FAGA,yB; MA4OA,aAS6D,0B;MAT7D,+B;MA5OA,wB;QAEuD,OeAA,eAAW,CfmP7B,eAAW,oBAAL,SAAK,CAAL,YA AN,CfnP6B,MAAK,GCAI,KfmP6C,KAAL,GAAiB,CAAjB,C;O;KfFvD,C;gGAIA,yB;MA8NA,6B;MA9NA,wB;QAEuD,O DMD,cAAU,CC+N7B,cAAU,SAAL,GAAiB,KAAtB,CD/N6B,MAAK,GAAY,CD8N9C,cEpOwC,KFoO9B,KAA L,GAAiB,GAAtB,CC9N8C,MAAZ,IAAf,C;O;KCRtD,C;gGAGA,yB;MA2NA,6B;MA3NA,wB;QAEwD,ODGF,c AAU,CC+N7B,cAAU,SAAL,GAAiB,KAAtB,CD/N6B,MAAK,GAAY,CC+N9C,cAlOyC,KAkO/B,KAAL,GAAi B,KAAtB,CC/N8C,MAAZ,IAAf,C;O;KCLtD,C;gGAGA,yB;MAwNA,6B;MAxNA,wB;QAEsD,ODAA,cAAU,CC+ N7B,cAAU,SAAL,GAAiB,KAAtB,CD/N6B,MAAK,GCAK,KDAO,KAAZ,IAAf,C;O;KCFtD,C;gGAGA,yB;MA+ NA,aAS6D,0B;MAT7D,+B;MA/NA,wB;QAEwD,OeAA,eAAW,CfsO9B,eAAW,oBAAL,SAAK,CAAL,YAAN, CftO8B,MAAK,GCAK,KfsO8C,KAAL,GAAiB,CAAjB,C;O;KfFxD,C;gGAIA,yB;MAiNA,6B;MAjNA,wB;QAEu D,ODMD,cAAe,YAAL,CCkN7B,cAAU,SAAL,GAAiB,KAAtB,CDlN6B,MAAK,EAAY,CDiN9C,cEvNwC,KFu N9B,KAAL,GAAiB,GAAtB,CCjN8C,MAAZ,CAAf,C;O;KCRtD,C;gGAGA,yB;MA8MA,6B;MA9MA,wB;QAEwD ,ODGF,cAAe,YAAL,CCkN7B,cAAU,SAAL,GAAiB,KAAtB,CDlN6B,MAAK,EAAY,CCkN9C,cArNyC,KAqN/ B,KAAL,GAAiB,KAAtB,CClN8C,MAAZ,CAAf,C;O;KCLtD,C;gGAGA,yB;MA2MA,6B;MA3MA,wB;QAEsD,O DAA,cAAe,YAAL,CCkN7B,cAAU,SAAL,GAAiB,KAAtB,CDlN6B,MAAK,ECAK,KDAO,KAAZ,CAAf,C;O;KCF tD,C;gGAGA,yB;MAkNA,aAS6D,0B;MAT7D,+B;MAlNA,wB;QAEwD,OeAA,eAAW,CfyN9B,eAAW,oBAAL, SAAK,CAAL,YAAN,CfzN8B,MAAK,ECAK,KfyN8C,KAAL,GAAiB,CAAjB,C;O;KfFxD,C;4FAIA,yB;MAoMA,6 B;MApMA,wB;QAEqD,ODMD,WCqMjB,cAAU,SAAL,GAAiB,KAAtB,CDrMiB,MoC,cE1MoC,KF0M1B,KAAL ,GAAiB,GAAtB,CCpMiB,MAAX,C;O;KCRpD,C;4FAGA,yB;MAiMA,6B;MAjMA,wB;QAEsD,ODGF,WCqMjB, cAAU,SAAL,GAAiB,KAAtB,CDrMiB,ECqMqC,KAwM3B,KAAL,GAAiB,KAAtB,CCrMiB,C;O;KC LpD,C;4FAGA,yB;MA8LA,6B;MA9LA,wB;QAEoD,ODAA,WCqMjB,cAAU,SAAL,GAAiB,KAAtB,CDrMiB,E CAkB,KDAlB,C;O;KCFpD,C;4FAGA,yB;MAqMA,aAS6D,0B;MAT7D,+B;MerMA,OeAA,Yf4MjB,eAAW,oB AAL,SAAK,CAAL,YAAN,Cf5MiB,C;O;KfFtD,C;4FAIA,yB;MAuLA,6B;MDzLA,kD;MCdA,wB;QAMqD,ODcD,c C4KjB,cAAU,SAAL,GAAiB,KAAtB,CD5KiB,ED2KjB,cEzLoC,KFyL1B,KAAL,GAAiB,GAAtB,CC3KiB,C;O;K CpBpD,C;4FAGA,yB;MAgLA,6B;MDzLA,kD;MCPA,wB;QAMsD,ODOF,cC4KjB,cAAU,SAAL,GAAiB,KAAtB, CD5KiB,ECOkB,KAnLqC,KAmL3B,KAAL3B,KAAL,GAAiB,KAAtB,CC5KiB,C;O;KCbpD,C;4FAGA,yB;MA yKA,6B;MAzKA,wB;QAEoD,ODAA,cC4KjB,cAAU,SAAL,GAAiB,KAAtB,CD5KiB,ECAkB,KDAlB,C;O;KCF pD,C;4FAGA,yB;MAgLA,aAS6D,0B;MAT7D,+B;MerLA,OeAA,efkKjB,eAAW,oBAAL,SAAK,CAAL,YAAN,C flKiB,C;O;KfFtD,C

;sGAQA,yB;MA0JA,6B;MD9LA,4C;MCoCA,wB;QAMiD,ODxCG,WCqMjB,cAAU,SAAL,GAAiB,KAAtB,CDr
MiB,EDoMjB,cE5JqC,KF4J3B,KAAL,GAAiB,GAAtB,CCpMiB,C;O;KCkCpD,C;sGAOA,yB;MAmJA,6B;MD9L
A,4C;MC2CA,wB;QAMkD,OD/CE,WCqMjB,cAAU,SAAL,GAAiB,KAAtB,CDrMiB,ECqMjB,cAtJsC,KAsJ5B,K
AAL,GAAiB,KAAtB,CDrMiB,C;O;KCyCpD,C;sGAOA,yB;MA4IA,6B;MD9LA,4C;MCkDA,wB;QAMgD,ODtDI
,WCqMjB,cAAU,SAAL,GAAiB,KAAtB,CDrMiB,ECsDmB,KDtDnB,C;O;KCgDpD,C;sGAOA,yB;MA+IA,aAS6
D,0B;MAT7D,+B;MerMA,8C;MfsDA,wB;QAMkD,Oe1DI,Yf4MjB,eAAW,oBAAL,SAAK,CAAL,YAAN,Ce5Mi
B,Ef0DoB,Ke1DpB,C;O;KfoDtD,C;4FAQA,yB;MA6HA,6B;MDzKA,kD;MDuOJ,0B;MAAA,+B;ME3LI,wB;QA
Q6C,OF8LR,eAAW,OC5OI,cC4KjB,cAAU,SAAL,GAAiB,KAAtB,CD5KiB,ED2KjB,cE7H4B,KF6HlB,KAAL,G
AAiB,GAAtB,CC3KiB,CAkLf,KD0DW,CAAX,C;O;KEtMrC,C;4FASA,yB;MAoHA,6B;MDzKA,kD;MCwOJ,4B;
MAAA,iC;MAnLI,wB;QAQ+C,OAsLR,gBAAY,QD7OC,cC4KjB,cAAU,SAAL,GAAiB,KAAtB,CD5KiB,EC4Kj
B,cArH8B,KAqHpB,KAAL,GAAiB,KAAtB,CD5KiB,CA4Lb,KCiDY,CAAZ,C;O;KA9LvC,C;4FASA,yB;MA2G
A,6B;MDzKA,kD;MC8DA,wB;QAQ2C,ODhES,cC4KjB,cAAU,SAAL,GAAiB,KAAtB,CD5KiB,ECgES,KDhET,
C;O;KCwDpD,C;4FASA,yB;MA4GA,aAS6D,0B;MAT7D,+B;Me5KA,oD;MfgEA,wB;QAQ6C,OelES,ef+KjB,eA
AW,oBAAL,SAAK,CAAL,YAAN,Ce/KiB,EfkEU,KelEV,C;O;Kf0DtD,C;4EAUA,yB;MAAA,4B;MAAA,iC;MA
AA,mB;QAM2C,uBAAY,QAAL,SAAK,KAAZ,C;O;KAN3C,C;4EAQA,yB;MAAA,4B;MAAA,iC;MAAA,mB;Q
AM2C,uBAAY,QAAL,SAAK,KAAZ,C;O;KAN3C,C;oGAQA,yB;MAAA,8C;MAwEA,6B;MAxEA,wB;QAE+D,0
BA+E5B,cAAU,SAAL,GAAiB,KAAtB,CA/E4B,EA+E5B,cA/EqD,KA+E3C,KAAL,GAAiB,KAAtB,CA/E4B,C;O
;KAF/D,C;4FAIA,yB;MAAA,iC;M2LnNJ,4B;M3LmNI,wB;QAEqD,uB2LlNiC,Q3LkN1B,IAAK,K2LlNX,G3LkN
oB,KAAM,K2LlNM,C3LkNjC,C;O;KAFrD,C;0FAGA,yB;MAAA,iC;M2LjNJ,4B;M3LiNI,wB;QAEoD,uB2LhNg
C,Q3LgNzB,IAAK,K2LhNX,G3LgNmB,KAAM,K2LhNM,C3LgNhC,C;O;KAFpD,C;4FAGA,yB;MAAA,iC;M2L
/MJ,4B;M3L+MI,wB;QAEqD,uB2L9MiC,Q3L8M1B,IAAK,K2L9MX,G3L8MoB,KAAM,K2L9MM,C3L8MjC,C;
O;KAFrD,C;4EAGA,yB;MAAA,iC;M2L7MJ,4B;M3L6MI,mB;QAEkC,uB2L5MsB,QAAP,C3L4MR,S2L5Me,C3
L4MtB,C;O;KAFlC,C;kFAIA,yB;MAAA,0B;MAAA,mB;QAUmC,OAAK,OAAL,SAAK,C;O;KAVxC,C;oFAWA,
Y;MASqC,gB;K;gFACrC,Y;MASiC,OAAK,SAAL,GAAiB,K;K;kFAClD,yB;MAAA,aASqD,0B;MATrD,mB;QAS
mC,OAAK,oBAAL,SAAK,CAAL,Y;O;KATnC,C;oFAWA,yB;MF+DJ,0B;MAAA,+B;ME/DI,mB;QASqC,OFiEE,
eAAW,OEjEb,SFiEa,CAAX,C;O;KE1EvC,C;sFAUA,Y;MAEuC,W;K;kFACvC,yB;MAAA,6B;MAAA,mB;QASm
C,qBAAU,SAAL,GAAiB,KAAtB,C;O;KATnC,C;oFAUA,yB;MAAA,aAS6D,0B;MAT7D,+B;MAAA,mB;QASqC
,sBAAW,oBAAL,SAAK,CAAL,YAAN,C;O;KATrC,C;oFAWA,Y;MAMqC,OApDC,SAAL,GAAiB,K;K;sFAqDl
D,Y;MAMuC,OA3DD,SAAL,GAAiB,K;K;gCA6DlD,Y;MAAyC,OAAQ,CA7DX,SAAL,GAAiB,KA6DD,Y;K;;;;;
gCA3UrD,Y;MAAA,c;MAG6D,qD;MAH7D,a;K;8BAAA,iB;MAAA,2IAG6D,oCAH7D,G;K;0EA+UA,yB;MAA
A,iC;MAAA,4B;QAW4C,uBAAY,SAAZ,C;O;KAX5C,C;4EAYA,yB;MAAA,iC;MAAA,4B;QAU6C,uBAAO,SA
AP,C;O;KAV7C,C;4EAWA,yB;MAAA,4B;MAAA,iC;MAAA,4B;QAW2C,uBAAY,QAAL,SAAK,CAAZ,C;O;K
AX3C,C;4EAYA,yB;MAAA,4B;MAAA,iC;MAAA,4B;QAW4C,uBAAY,QAAL,SAAK,SAAZ,C;O;KAX5C,C;Ii
C/WA,8B;MACqB,sB;K;wCAKjB,iB;MAM8C,OjCsVL,WiCtVK,aAAQ,KAAR,CjCsVL,C;K;wCiCpVzC,wB;MA
OI,aAAQ,KAAR,IAAiB,KjC4OgB,K;K;mFiCxOP,Y;MAAQ,OAAA,YAAQ,O;K;qCAE9C,Y;MAC+E,gCAAS,Y
AAT,C;K;IAGzD,qC;MAAAkC,yB;MAAjC,oB;MACnB,eAAoB,C;K;6CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;gD
ACvC,Y;MAA0D,Q;MAA9B,IAAI,eAAAQ,YAAM,OAAlB,C;QAAA,OjCgUS,WiChUe,aAAM,mBAAN,EAAM,2
BAAN,OjCgUf,C;;QiChU8C,MAAM,2BAAuB,YAAM,WAA7B,C;K;;;2CAG7F,mB;MAIS,Q;MAAL,IAAI,eAAAc,
0EAAD,SAAJ,C;QAAkC,OAAAe,WAAR,YAAQ,EAAS,OjCsNlB,KiCtNlB,C;K;gDAGnB,oB;MACY,Q;MAA2B,gE;MAA2B,c;;QjB0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;;QAC3B,OAAe,gBAAf,6BAAe,C;QjC0OVG,iBiC1OL,iBjC0OY,OAAO,oBAAf,UiC0OnB,C;UjBznDH,aAAO,K;UAAP,e;;QACrB,aAAO,I;;MiC/nDA,OjBgoDP,O;;KiChoDO,e;;QACrB,aAAO,I;QAAP,e;;MAAA,sCAAsB,mBAAA,YjB0nDhD,OAAO,oBAAf,UiB1nDgD,CAAtB,MjB0nDZ,YAAO,qBAAf,UiB1nDY,C;KAAP,e;;QACrB,aAAO,I;QAAP,e;;MAAA,sCAAkB,mBAAA,YAAAc,mBAAA,YAAA,mBAAN,CAAlB,MAAkB,Y;KAAP,e;;QACb,aAAO,I;QAAP,e;;MAAA,sCAAlB,mBAAA,YAAA,2IAAkB,0CAAL,Y;K;kFAyDA,yB;MAAA,2C;MAWwC,0C;QAAA,wB;UAAA,OAAAW,OjCgMjC,WiChMiC,aAAK,KAAL,CjCgMjC,C;S;K;;;O;MiC5LbC,5MzC,6B;QAWI,OAAQ,CAAK,OAAL,SAAK,CjCiDY,K;K;IAExC,qC;MAAAkC,yB;MAAjC,oB;MACnB,eAAoB,C;K;6CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;gD
ACvC,Y;MAA0D,Q;MAA9B,IAAI,eAAAQ,YAAM,OAAlB,C;QAAA,OjCgUS,WiChUe,aAAM,mBAAN,EAAM,2
BAAN,OjCgUf,C;;QiChU8C,MAAM,2BAAuB,YAAM,WAA7B,C;K;;;kFAyDA,yB;MAAA,2C;MAWwC,0C;QAA
A,wB;UAAA,OAAAW,OjCgMjC,WiChMiC,aAAK,KAAL,CjCgMjC,C;S;K;;;O;

PmB,EAAS,KAAT,C;K;IAGzE,sC;MAQ0D,OAAc,WnOiR5B,oBmOjRc,SnOiRnB,KAAK,CAAL,iBmOjRiC,EA
AS,KAAT,C;K;IAExE,sC;MAOgD,uBAAc,SnNyQvB,KmNzQS,EAA6B,WAAW,KAAX,CAA7B,C;K;IAGhD,8B
;MAMqC,Q;MAAA,0DAAmB,kBAAkB,SAAlB,C;K;IAExD,qC;MAO+C,Q;MAAA,0CAAc,KAAd,oBAAwB,kB
AAkB,SAAlB,C;K;IAGvE,+B;MAMuC,Q;MAAA,2DAAoB,kBAAkB,SAAlB,C;K;IAE3D,sC;MAOiD,Q;MAAA,
2CAAe,KAAf,oBAAyB,kBAAkB,SAAlB,C;K;IAE1E,6B;MAMmC,Q;MAAA,yDAAkB,kBAAkB,SAAlB,C;K;IA
ErD,oC;MAO6C,Q;MAAA,yCAAa,KAAb,oBAAuB,kBAAkB,SAAlB,C;K;IAEpE,8B;MAMqC,Q;MAAA,0DAA
mB,kBAAkB,SAAlB,C;K;IAExD,qC;MAO+C,Q;MAAA,0CAAc,KAAd,oBAAwB,kBAAkB,SAAlB,C;K;IAMvE,
kC;MAM4C,kCAAsB,EAAtB,C;K;IAE5C,2C;MASmB,Q;MAAA,sBAAL,SAAK,EAAa,KAAb,C;MAAL,iB;QAA
4B,OAAO,I;;MAA7C,UAAAU,I;MACV,InO/EkE,YmO+E9D,GnO/E+E,KAAjB,EAA6B,CD6P5D,SoO9KzB,6BA
AM,UpO8K6B,KAAL,GAAiB,GAAtB,CC7P4D,MAA7B,CmO+E9D,IAAJ,C;QAA2B,OAAO,I;MAClC,OpO8Oq
C,UAAW,OoO9OzC,GnOoL8B,KD0DW,CAAX,C;K;IoO3OzC,mC;MAM8C,mCAAuB,EAAvB,C;K;IAE9C,4C;
MASmB,Q;MAAA,sBAAL,SAAK,EAAa,KAAb,C;MAAL,iB;QAA4B,OAAO,I;;MAA7C,UAAAU,I;MACV,InOrG
kE,YmOqG9D,GnOrG+E,KAAjB,EAA6B,CC8P5D,SkOzOjZ,8BAAO,UlOyJ4B,KAAL,GAAiB,KAAtB,CD9P4D,
MAA7B,CmOqG9D,IAAJ,C;QAA4B,OAAO,I;MACnC,OlOyNuC,WAAY,QkOzN5C,GnOowKgC,KCiDY,CAAZ,
C;K;IkOtN3C,iC;MAM0C,iCAAqB,EAArB,C;K;IAE1C,0C;MASI,WAAW,KAAX,C;MAEA,aAAa,SAAK,O;MA
ClB,IAAI,WAAU,CAAd,C;QAAiB,OAAO,I;MAExB,YAAkB,4BAAK,U;MACvB,S;MAEA,gBAAgB,qBAAK,C
AAL,C;MAChB,IAAI,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IAAe,cAAa,EAAhC,C;UAAqC,OAAO,I;QA
C5C,QAAQ,C;;QAER,QAAQ,C;;MAGZ,uBAAuB,mB;MAEvB,qBAAqB,gB;MACrB,anOuMmC,SmOvMtB,KnO
uMsB,C;MmOtMnC,aAAa,W;MACb,aAAU,KAAV,MAAsB,MAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CA
AR,EAAiB,KAAjB,C;QAEZ,IAAI,QAAQ,CAAZ,C;UAAe,OAAO,I;QACtB,InOnJ8D,YmOmJ1D,GnOnJ2E,KAA
jB,EmOmJjjD,cnOnJ8E,KAA7B,CmOmJ1D,IAAJ,C;QACI,IAAI,+CAAkB,gBAAlB,QAAJ,C;YACI,iBnO5FwC,W
mO4FvB,KnO5FuB,EmO4Ff,MnO5Fe,C;YmO8FxC,InOvJsD,YmOuJlD,MnOvJmE,KAAjB,EmOuJzC,cnOvJsE,K
AA7B,CmOuJlD,IAAJ,C;QcACI,OAAO,I;;;YAGX,OAAO,I;;;QAIf,SnOnHkD,SAAe,YmOmHjE,MnOnH4D,KAAK
,EmOmHvD,MnOnHmE,KAAZ,CAAf,C;QmOoHH,mBAAAmB,M;QACnB,SnOhJiD,SmOgJjjD,MnOhJ2D,KAAK,
GAAW,CAkU5C,SmOlLrB,KnOkOkLqB,CAlU4C,MAAX,IAAf,C;QmOiJH,OiJjjD,InOnK8D,YmOmK1D,GnOnK2
E,KAAjB,EmOmKjjD,YnOnK8E,KAA7B,CmOmK1D,IAAJ,C;QAA2B,OAAO,I;;MAGtC,OAAO,M;K;IAGX,kC;MAM
4C,kCAAsB,EAAtB,C;K;IAE5C,2C;MASI,WAAW,KAAX,C;MAEA,aAAa,SAAK,O;MAClB,IAAI,WAAU,CA
Ad,C;QAAiB,OAAO,I;MAExB,YAAmB,6BAAM,U;MACzB,S;MAEA,gBAAgB,qBAAK,CAAL,C;MAChB,IAA
I,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IAAe,cAAa,EAAhC,C;UAAqC,OAAO,I;QAC5C,QAAQ,C;;QA
ER,QAAQ,C;;MAIZ,uBAAuB,mB;MAEvB,qBAAqB,gB;MACrB,anON5M+D,SmON4M3D,KnON5M4E,K
AAjB,EmON4MjjD,cnON5MgF,KAA9B,CmON4M3D,IAAJ,C;QACI,IAAI,+CAAkB,gBAAlB,QAAJ,C;YACI,iBnO
J1J0C,YmON0JjjD,znON0J2E,KnON0JyB,EmON0JjjD,MnON0JiB,C;YmON4J1C,YmON4J1C,InON0NhNuD,am
ON0NgNnD,MnON0NhNqE,KAAlB,EmON4N1C,cnON4NhNwE,K
AA9B,CmON4NgNnD,IAAJ,C;QcACI,OAAO,I;;;YAGX,OAAO,I;;;QAIf,SnON5JjLoD,SmON5JNiLpD,MnON5JLNjL+
D,KAAK,EmON5JNjLsE,KAAZ,CAAf,C;QmON6NHNiLpD,mBAAAmB,M;QACnB,SnON9MmD,SmON8MNiLjjD,Mn
ON8MNi8MnD,KnON9MN9M8D,KAAK,GAAW,CA4U5C,ChBsQ7C,UAAW,oBAAL,CAyDR,SmOjHrB,KnOiOiHqB,
CAzDQ,MAAK,CAAL,iBAAN,CgBtQ6C,MAAX,IAAf,C;QmOiJXNMA
X,CAAhB,C;QmQmN+MnD,InON5N+MnD,YmON5N+M0MnD,GnON5N+M0N+D,amON4N+M4N3D,MnON5N+M5N6
E,KAAlB,EmON4NljD,YnON5NgNgF,KAA9B,CmON4N4N3D,IA
AJ,C;QAA2B,OAAO,I;;MAGtC,OAAO,M;K;IAGX,kC;MAM4C,kCAAsB,EAAtB,C;K;I3N9RX,6B;MACKD,OAAu
B,0BAAtB,KAAO,WAAe,EAAU,KAA
O,WAAjB,C;K;IACzE,8B;MACqD,OAAC,gCAAuB,iBAAU,gCAAV,C;K;IAE7E,4B;MACoD,ORiZZ,SAvgI,oB
Q1SS,ER0Sd,KAAK,CAAL,iBQ1Sc,KR0ST,oBQ1SuB,ER0S5B,KAAK,CAAL,iBQ1Sc,CRiZH,QAAV,C;K;IQhZ
xC,+B;MACuD,OR+Yf,SAvgI,oBQxSY,ERwSjB,KAAK,CAAL,iBQxSiB,QRwSZ,oBQxS0B,ERwS/B,KAAK,C
AAL,iBQxSiB,CR+YN,QAAV,C;K;IQ1YxC,6B;MAEI,eAAe,EQkSoB,K;MRjSnC,cAAc,EQiSqB,K;MRhSnC,IA
AI,qBAAU,CAAd,C;QACI,OQ6C+D,aR7CpD,EQ6CsE,KAAlB,ER7C/C,EQ6C6E,KAA9B,CR7CpD,IAAJ,GAAa,
aAAb,GAA2B,a;;;MAItC,IAAI,uBAAAY,CAAhB,C;QACI,OAAO,UAAM,aAAW,OAAX,CAAN,C;;MAIX,eAAAiB,
4BAAc,CAAd,CAAD,KAAoB,OAAApB,CAAD,WAAkC,CAAAlC,C;MACf,UAAAU,I;MACR,CRiCzD,UAAM,GA
AN,CQjCC,KR7CpD,EQ6CsE,KAAlB,ER7C/C,EQ6C6E,KAA9B,CR7CpD,IAAJ,CAAAmB,M;MACkB,aAAA9B,CR
iCvD,UAA
M,OAAN,CQjCC,MRiCAiC,CRjCD,KAAJ,GAAAkC,CAAAySC,GAAAyC;K;IAIX,gC;MAKe,Q;MAAA,0BAAf,SAA
K,EAAa,KAAb,C;MAAL,iB;;;;;

AHX,eAAe,EQ8QoB,K;MR7QnC,cAAc,EQ6QqB,K;MR5QnC,IAAI,qBAAU,CAAd,C;QACW,IQyBwD,aRzBpD,
EQyBsE,KAAlB,ERzB/C,EQyB6E,KAA9B,CRzBpD,IAAJ,C;UACH,S;;UAEA,OQgDgD,URhDhD,EQgD2D,KA
AK,URhD3D,EQgDuE,KAAZ,CAAhB,C;;QRnDpD,W;;MAQJ,IAAI,uBAAY,CAAhB,C;QACI,OAAO,UAAM,gB
AAW,OAAX,CAAN,C;;MAIX,eAAiB,4BAAc,CAAd,CAAD,KAAoB,OAApB,CAAD,WAAkC,CAAlC,C;MACf,
UAAU,kBAAW,kBAAW,OAAX,CAAX,C;MACV,OAAO,UAAM,aQUsD,aAAkB,CRV9D,UAAM,GAAN,CQU8
D,MAAlB,EAA8B,CRV5D,UAAM,OAAN,CQU4D,MAA9B,CRV5C,KAAJ,GAAkC,OAAlC,KAAN,CAAN,C;K;
IAGX,yB;MAEI,IAAE,QAAF,CAAE,CAAF,C;QADyC,OAC5B,W;;QACb,SRwSuC,aQxSlC,4BAAK,URwS0C,K
AAb,CQxSvC,C;UAFyC,OAEP,4BAAK,U;;UAECvC,SRuSuC,aQvSlC,4BAAK,URuS0C,KAAb,CQvSvC,C;YAHy
C,OAGP,4BAAK,U;eACvC,SAAK,UAAL,C;YAJyC,ORkVN,SQ9UX,YAAF,CAAE,CR8UW,C;;YQlVM,ORgBY
,SAAU,CAkU5B,SQ7UP,YAAnB,IAAI,UAAe,CR6UO,CAlU4B,MAAK,GAAW,CAkU5C,SQ7UY,UR6UZ,CAlU
4C,MAAX,IAAf,C;;;;K;IQRzD,0B;MAEI,IAAE,QAAF,CAAE,CAAF,C;QAD2C,OAC9B,2B;;QACb,SQkSuC,cRl
SlC,6BAAM,UQkS0C,KAAd,CRlSvC,C;UAF2C,OAER,6BAAM,U;;UAECzC,SQiSuC,cRjSlC,6BAAM,UQiS0C,K
AAd,CRjSvC,C;YAH2C,OAGR,6BAAM,U;eACzC,4C;YAJ2C,OQwVL,URpVd,uBAAF,CAAE,CQoVc,C;;YRxV
K,OQUY,UAAW,CA8U5B,URjVF,uBAA3B,IAAI,oBAAuB,CQiVE,CA9U4B,MAAK,KAAW,CRHzB,gCQGyB,
MAAX,CAAhB,C;;;;K;IRC3D,yB;MAC4C,QAAC,CAAqB,GAAf,UAAP,IAAmC,CAAC,MAAO,EAAW,IAAJ,E
AAf,IAAgC,C;K;IAE/G,0B;MAC8C,OAAC,qBAAO,EAAP,CAAW,WAAZ,GAAyB,IAAzB,GAAiC,YAAjC,W;K
;IAG9C,0B;MAA8C,uBAAc,CAAd,EAAiB,EAAjB,C;K;IAE9C,kC;MACI,IAAI,gBAAK,CAAT,C;QAAY,OAAS,
WAAF,CAAE,EAAAS,IAAT,C;MAErB,eAAiB,qBAAO,CAAP,CAAD,yBAAa,IAAb,EAAD,WAAwB,CAAxB,C;
MACf,UAAU,WAAI,sCAAW,IAAX,EAAJ,C;MACV,IAAI,kBAAO,IAAX,C;QACI,uCAAO,IAAP,E;QACA,4CA
AY,CAAZ,E;;MAEJ,OAAgB,WAAT,QAAS,EAAS,IAAT,CAAT,GAA8B,WAAJ,GAAI,EAAS,IAAT,C;K;I4N1F
zC,qC;K;;;
;;
;;
;;
;;
;;
;;
;;
;;
;;
;;
;;
;;
;;;YpIsEA,iB;;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
;;
;;
;;
;;
;;;SqIjE8B,iB;QAGD,iB;gChJmBqB,I;IW8
C9C,aAAJ,OAAO,OAAQ,KAAI,WAAY,IAAG,OAAO,SAAf,IAA4B,CAAC,CAAC,OAAO,SAAS,K;aAChE,MA
AJ,GAAY,iBAAhB,OAA6B,OAAb,CAAZ,GAAoD,gC;uDG1EJ,mC,EAAuB,wB;ec0YrB,MAAW,KGzYlC,GHyY
kC,EGzY1B,GHyY0B,C;eAAX,MAAW,KGxYlC,GHwYkC,EGxY1B,GHwY0B,C;sBWpUnC,gBAA8B,CAA9B,
O;oCpGkOc,eAAmB,oCAAnB,C;yB+GnKL,C;gCAKY,eAAiB,OAAL,GAAK,CAAjB,EAAgC,OAAL,GAAK,CA
AhC,EAA+C,OAAL,GAAK,CAA/C,E;uBAwDd,K;qB4CnGK,C;yBACI,C;sBACH,C;kBACJ,C;iBACD,C;mBAC
E,C;sB5KuyCH,O;;;;uBkD3zCzB,W2JoCkC,yB3JpClC,C;;;;CzEjFX,E;"}

Found
 in path(s):
* /opt/cola/permits/1453413739_1666873675.4467995/0/kotlin-1-6-21-4-tgz/package/kotlin.js.map

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
 of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.131 open-csv 5.7.1

1.131.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
Copyright 2007 Kyle Miller.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/MappingStrategy.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/CsvToBean.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2007 Kyle Miller.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/HeaderColumnNameMappingStrategy.java
No license file was found, but licenses were detected in source scan.

/*
Copyright 2015 Bytecode Pty Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
*/
/**
* A very simple CSV writer released under a commercial-friendly license.
*
* @author Glen Smith
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/CSVWriter.java

No license file was found, but licenses were detected in source scan.

<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/META-
INF/maven/com.opencsv/opencsv/pom.xml
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2013 Mark Rogers.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*    http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/CsvToBeanFilter.java
No license file was found, but licenses were detected in source scan.

```
/**
* A very simple CSV parser for Java released under a commercial-friendly license.
*
* @see <a href="http://opencsv.sourceforge.net/">opencsv.sourceforge.net</a>
*/
/*
* Copyright 2016 Andrew Rucker Jones.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*    http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
```

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/package-info.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2018 Andrew Rucker Jones.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/AbstractMappingStrategy.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/AbstractFieldMap.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvNumber.java

*

 /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/HeaderIndex.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/ConverterNumber.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/comparator/LiteralComparator.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/RegexToBeanField.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/BeanFieldJoinIntegerIndex.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/PositionToBeanField.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/comparator/package-info.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/FieldMap.java

*

/opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/FieldMapByPosition.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/AbstractFieldMapEntry.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/FieldMapByPositionEntry.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/ComplexFieldMapEntry.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/BeanFieldJoinStringIndex.java

No license file was found, but licenses were detected in source scan.

/*

Copyright 2005 Bytecode Pty Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
*/
/**
* <p>A very simple CSV parser released under a commercial-friendly license.
* This just implements splitting a single line into fields.</p>
*
* <p>The purpose of the CSVParser is to take a single string and parse it into
* its elements based on the delimiter, quote and escape characters.</p>
*
* <p>The CSVParser has grown organically based on user
 requests and does not truly match
* any current requirements (though it can be configured to match or come close). There
* are no plans to change this as it will break existing requirements. Consider using
* the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.</p>
*
* @author Glen Smith
* @author Rainer Pruy
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/CSVParser.java
No license file was found, but licenses were detected in source scan.

/*

Copyright 2005 Bytecode Pty Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/CSVParserBuilder.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/ResultSetHelper.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/CSVReaderBuilder.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/ResultSetHelperService.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 Andrew Rucker Jones.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/exceptions/CsvBadConverterException.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/exceptions/CsvRequiredFieldEmptyException.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvBindByPosition.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/AbstractBeanField.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/ConverterDate.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvToBeanBuilder.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/util/OpencsvUtils.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvMalformedLineException.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvException.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/ConverterPrimitiveTypes.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/customconverter/package-info.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvCustomBindByName.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvDate.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/customconverter/ConvertFrenchToBoolean.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvDataTypeMismatchException.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/StatefulBeanToCsvBuilder.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/stream/reader/package-info.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvBindByName.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvConstraintViolationException.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/package-info.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvRuntimeException.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvMultilineLimitBrokenException.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/customconverter/ConvertGermanToBoolean.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/enums/package-info.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-

jar/com/opencsv/exceptions/package-info.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/exceptions/CsvBeanIntrospectionException.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvCustomBindByPosition.java

*

 /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/StatefulBeanToCsv.java

No license file was found, but licenses were detected in source scan.

/*

Copyright 2005 Bytecode Pty Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
*/
/**
* A very simple CSV reader released under a commercial-friendly license.
*
* @author Glen Smith
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/CSVReader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 arjones.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and

* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/concurrent/package-info.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 Scott Conway
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/ResultSetColumnNameHelperService.java
No license file was found, but licenses were detected in source scan.

/*
Copyright 2018 Bytecode Pty Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/CSVParserWriter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 Andrew Rucker Jones.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/concurrent/ProcessCsvBean.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/CsvConverter.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/util/OrderedObject.java
*
 /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/CsvBindAndSplitByPosition.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/BeanFieldSingleValue.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/BeanFieldSplit.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/CsvBindAndJoinByPosition.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/concurrent/ProcessCsvLine.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/CsvBindAndSplitByName.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/concurrent/IntolerantThreadPoolExecutor.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/concurrent/AccumulateCsvResults.java
*
 /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/FieldMapByNameEntry.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-
jar/com/opencsv/bean/AbstractCsvConverter.java
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-

jar/com/opencsv/bean/FieldMapByName.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/BeanFieldJoin.java

* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/CsvBindAndJoinByName.java

No license file was found, but licenses were detected in source scan.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/convertLanguageToBoolean.properties
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/opencsv_pt_BR.properties
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/opencsv.properties
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/convertLanguageToBoolean_en.properties
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/opencsv_en.properties
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/convertLanguageToBoolean_de.properties
*
 /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/opencsv_de.properties
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2007,2010 Kyle Miller.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1460265720_1667461690.2601388/0/opencsv-5-7-1-sources-jar/com/opencsv/bean/HeaderColumnNameTranslateMappingStrategy.java

1.132 fdisk 2.38.1

1.132.1 Available under license :

```
NR START   END SECTORS SIZE NAME UUID
1    32  7679   7648 3.7M      8f8378c0-01
2  7680 16383   8704 4.3M      8f8378c0-02
5  7936 12799   4864 2.4M
6 12544 16127   3584 1.8M
```

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library,
whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software
patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less

of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the

Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
   stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
   charge to all third parties under the
 terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may

distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is
   interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
   least three years, to give the same user the materials
   specified in Subsection 6a, above, for a charge no more
   than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to

be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY

AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

           END OF TERMS AND CONDITIONS

      How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

   <one line to give the library's name and a brief idea of what it does.>
   Copyright (C) <year> <name of author>

   This library is free software; you can redistribute it and/or
   modify it under the terms of the GNU Lesser General Public
   License as published by the Free Software Foundation; either
   version 2.1 of the License, or (at your option) any later version.

   This library is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
   Lesser General Public License for more details.

   You should have received a copy of the GNU Lesser General Public
   License along with this library; if not, write to the Free Software
   Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
   USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License

along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of

a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
   received the program in object code or executable form with such
   an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to

decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,

REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                    END OF TERMS AND CONDITIONS

          How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that

patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

 An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated

conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all

recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the

machine-readable Corresponding Source under the terms of this License, in one of these ways:

  a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years
and valid for as
  long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

  d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in
the same way through the same place at no
  further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

  e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

 A separable portion of the object code, whose source code is excluded from the Corresponding Source

as a System Library, need not be
included in conveying the object code work.

 A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in

source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under

this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims

owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is

conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
 License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.

1.133 feign-slf4j 11.10

1.133.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--

express

or implied. See the License for the specific language governing permissions and limitations under
the License.

-->

Found in path(s):
* /opt/cola/permits/1468115544_1668001211.006281/0/feign-slf4j-11-10-jar/META-
INF/maven/io.github.openfeign/feign-slf4j/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bundle-Description: Feign SLF4J
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: io.github.openfeign.feign-slf4j
Bnd-LastModified: 1663794525561
Bundle-ManifestVersion: 2
Bundle-DocURL: https://github.com/openfeign
Bundle-Vendor: OpenFeign
Import-Package: feign;version="[11.10,12)",org.slf4j;version="[1.7,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
Export-Package: feign.slf4j;uses:=feign;version="11.10.0"
Bundle-Name: Feign SLF4J
Bundle-Version: 11.10.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.8

Found in path(s):
* /opt/cola/permits/1468115544_1668001211.006281/0/feign-slf4j-11-10-jar/META-INF/MANIFEST.MF

1.134 spring-security-rsa 1.0.11.RELEASE
1.134.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License,
each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.135 zlib 1.2.13-r1

1.135.1 Available under license :

Copyright notice:

(C) 1995-2022 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly   Mark Adler
jloup@gzip.org   madler@alumni.caltech.edu
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
 FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

1.136 commons-compiler 3.1.9

1.136.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Janino - An embedded Java[TM] compiler
*
* Copyright (c) 2001-2018 Arno Unkrig. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the
* following conditions are met:
*
*   1. Redistributions of source code must retain the above copyright notice, this list of conditions and the
*   following disclaimer.
*   2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the
*   following disclaimer in the documentation and/or other materials provided with the distribution.
*   3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote
*   products derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS
 OR IMPLIED WARRANTIES,
* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
* SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
* OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-

jar/org/codehaus/commons/compiler/util/resource/StringResource.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/compiler/util/LineAndColumnTracker.java

No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/compiler/java8/java/util/stream/Stream.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/compiler/java9/java/lang/module/ModuleReference.java

*
 /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/compiler/util/Disassembler.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/compiler/java8/java/util/function/Consumer.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/compiler/java9/java/lang/module/ModuleReader.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/java8/java/util/Optional.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/package-info.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/java9/java/lang/module/ModuleFinder.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/package-info.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/AbstractCompiler.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/java8/java/util/package-info.java
*

/opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/samples/CompilerDemo.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/Numbers.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/reflect/Classes.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/lang/package-info.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/reflect/ApiLog.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/ListableResourceFinder.java

*

 /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/MultiCookable.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/LocatableResource.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/ResourceFinders.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/reflect/Proxies.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/java8/java/util/function/package-info.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/lang/ClassLoaders.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/reflect/Methods.java

*

 /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/ICompiler.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/java8/java/util/function/Consumers.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/reflect/NoException.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/StringUtil.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/Predicate.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/package-info.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/reflect/package-info.java

*

 /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/java8/java/util/stream/package-info.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/IMultiCookable.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-

jar/org/codehaus/commons/compiler/io/package-info.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/compiler/util/iterator/Iterables.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/compiler/io/InputStreams.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/compiler/util/SystemProperties.java
No license file was found, but licenses were detected in source scan.

* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the

* following conditions are met:

*

*   1. Redistributions of source code must retain the above copyright notice, this list of conditions and the

*   following disclaimer.

*   2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the

*   following disclaimer in the documentation and/or other materials provided with the distribution.

*   3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote

*   products derived from this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS

 OR IMPLIED WARRANTIES,

* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE

* DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR

* SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,

* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE

* OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/Sandbox.java

No license file was found, but licenses were detected in source scan.

/*

* Janino - An embedded Java[TM] compiler

*

* Copyright (c) 2018, 2019 Arno Unkrig. All rights reserved.

*

* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the

* following conditions are met:

*

*   1. Redistributions of source code must retain the above copyright notice, this list of conditions and the

*   following disclaimer.

*   2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the

*   following disclaimer in the documentation and/or other materials provided with the distribution.

*   3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote

*   products derived from this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS

OR IMPLIED WARRANTIES,
* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR
* SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
* OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/compiler/io/Readers.java
No license file was found, but licenses were detected in source scan.

/*
* Janino - An embedded Java[TM] compiler
*
* Copyright (c) 2010 Arno Unkrig. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the
* following conditions are met:
*
*   1. Redistributions of source code must retain the above copyright notice, this list of conditions and the
*   following disclaimer.
*   2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the
*   following disclaimer in the documentation and/or other materials provided with the distribution.
*   3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote
*   products derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR
 IMPLIED WARRANTIES,
* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR
* SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
* OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/AbstractCompilerFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Janino - An embedded Java[TM] compiler
*
* Copyright (c) 2013 Arno Unkrig. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the
* following conditions are met:
*
*   1. Redistributions of source code must retain the above copyright notice, this list of conditions and the
*   following disclaimer.
*   2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the
*   following disclaimer in the documentation and/or other materials provided with the distribution.
*   3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote
*   products derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR
 IMPLIED WARRANTIES,
* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
* SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
* OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/samples/package-info.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/java9/java/lang/module/package-info.java
No license file was found, but licenses were detected in source scan.

/*
* Janino - An embedded Java[TM] compiler
*

Found in path(s):
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/nullanalysis/package-info.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/nullanalysis/Nullable.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/nullanalysis/NotNull.java
*
 /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-
jar/org/codehaus/commons/nullanalysis/NotNullByDefault.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/FilterListIterator.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/IClassBodyEvaluator.java
*
 /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/ResourceFinderClassLoader.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/IScriptEvaluator.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/AbstractJavaSourceClassLoader.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/InternalCompilerException.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/Producer.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/package-info.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/Location.java
*
 /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/UniterableElementException.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/LazyMultiResourceFinder.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/ICookable.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/IteratorCollection.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/CompileException.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/ProducerIterator.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/FileResource.java
*
 /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/JarDirectoriesResourceFinder.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/samples/ShippingCost.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/samples/ScriptDemo.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/Cookable.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/ResourceFinder.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/ReverseListIterator.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/TransformingIterator.java
*
 /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/ISimpleCompiler.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/MapResourceCreator.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/ErrorHandler.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/ICompilerFactory.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/WarningHandler.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/EnumerationIterator.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/samples/DemoBase.java
*
 /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/DirectoryIterator.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/FileResourceFinder.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/FileResourceCreator.java
* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-

jar/org/codehaus/commons/compiler/util/resource/DirectoryResourceCreator.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/reflect/ByteArrayClassLoader.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/CompilerFactoryFactory.java

*

/opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/MultiIterator.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/MapResourceFinder.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/samples/ClassBodyDemo.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/PathResourceFinder.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/StringPattern.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/samples/ExpressionDemo.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/DirectoryResourceFinder.java

*

/opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/TraversingIterator.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/LocatedException.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/Resource.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/ZipFileResourceFinder.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/iterator/MultiDimensionalIterator.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/ResourceCreator.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/resource/MultiResourceFinder.java

*

/opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/util/Benchmark.java

* /opt/cola/permits/1494419028_1669966512.1572773/0/commons-compiler-3-1-9-sources-jar/org/codehaus/commons/compiler/IExpressionEvaluator.java

1.137 jettison 1.4.0

1.137.1 Available under license :

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including

the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the

origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2006 Envoi Solutions LLC

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.138 httpcomponents-core 4.4.16

1.138.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct

or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the

Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained

within such NOTICE file, excluding
those notices that do not

pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

   Copyright [yyyy] [name of copyright owner]

   Licensed under the Apache License, Version 2.0 (the "License");
   you may not use this file except in compliance with the License.
   You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.

Apache HttpCore
Copyright 2005-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

1.139 httpcomponents-client 4.5.14
1.139.1 Available under license :

Apache HttpClient
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.140 bcel 6.6.0

1.140.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity authorized by
  the copyright owner that is granting the License.

  "Legal Entity" shall mean the union of the acting entity and all
  other entities that control, are controlled by, or are under common
  control with that entity. For the purposes of this definition,
  "control" means (i) the power, direct or indirect, to cause the
  direction or management of such entity, whether by contract or
  otherwise, or (ii) ownership of fifty percent (50%) or more of the
  outstanding shares, or (iii) beneficial ownership
of such entity.

  "You" (or "Your") shall mean an individual or Legal Entity
  exercising permissions granted by this License.

  "Source" form shall mean the preferred form for making modifications,
  including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this

License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Apache Commons BCEL
Copyright 2004-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

1.141 freemarker 2.3.32

1.141.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

===

The source code contains the following binaries,

which were created at the Apache FreeMarker project, and hence are

covered by the same license as the other source files of it:

 src/main/misc/overloadedNumberRules/prices.ods

 src/manual/en_US/docgen-originals/figures/overview.odg

 src/manual/en_US/docgen-originals/figures/model2sketch_with_alpha.png

 src/manual/en_US/docgen-originals/figures/tree_with_alpha.png

 src/manual/en_US/favicon.png

 src/manual/en_US/figures/model2sketch.png

 src/manual/en_US/figures/overview.png

 src/manual/en_US/figures/tree.png

  src/manual/en_US/logo.png

 src/manual/zh_CN/favicon.png

 src/manual/zh_CN/figures/model2sketch.png

 src/manual/zh_CN/figures/overview.png

 src/manual/zh_CN/figures/tree.png

 src/manual/zh_CN/logo.png

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
   that You distribute, all copyright, patent, trademark, and
   attribution notices from the Source form of the Work,
   excluding those notices that do not pertain to any part of
   the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
   distribution, then any Derivative Works that You distribute must
   include a readable copy of the attribution notices contained
   within such NOTICE file, excluding

those notices that do not
   pertain to any part of the Derivative Works, in at least one
   of the following places: within a NOTICE text file distributed
   as part of the Derivative Works; within the Source form or
   documentation, if provided along with the Derivative Works; or,
   within a display generated by the Derivative Works, if and
   wherever such third-party notices normally appear. The contents
   of the NOTICE file are for informational purposes only and
   do not modify the License. You may add Your own attribution
   notices within Derivative Works that You distribute, alongside
   or as an addendum to the NOTICE text from the Work, provided
   that such additional attribution notices cannot be construed
   as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

 5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

 6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

 7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
Licensed to the Apache Software Foundation (ASF) under one
or more contributor license agreements. See the NOTICE file
distributed with this work for additional information
regarding copyright ownership. The ASF licenses this file
to you under the Apache License, Version 2.0 (the
"License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing,
software distributed under the License is distributed on an
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
KIND, either express or implied. See the License for the
specific language governing permissions and limitations
under the License.
Apache FreeMarker
Copyright 2015-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

                    Apache License
                 Version 2.0, January 2004
               http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained

within such NOTICE file, excluding
those notices that do not
   pertain to any part of the Derivative Works, in at least one
   of the following places: within a NOTICE text file distributed
   as part of the Derivative Works; within the Source form or
   documentation, if provided along with the Derivative Works; or,
   within a display generated by the Derivative Works, if and
   wherever such third-party notices normally appear. The contents
   of the NOTICE file are for informational purposes only and
   do not modify the License. You may add Your own attribution
   notices within Derivative Works that You distribute, alongside
   or as an addendum to the NOTICE text from the Work, provided
   that such additional attribution notices cannot be construed
   as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

==

The Apache FreeMarker documentation contains the following binaries,
which were created at the Apache FreeMarker project, and hence are
covered by the same license as the other source files of it:

  documentation/_html/docgen-resources/img/patterned-bg.png
  documentation/_html/docgen-resources/img/xxe.png
  documentation/_html/favicon.png
  documentation/_html/figures/model2sketch.png
  documentation/_html/figures/overview.png
  documentation/_html/figures/tree.png
  documentation/_html/logo.png

==

The
 documentation includes a selection of icons from various icon sets
(fonts), stored together inside these files, which were geneated with
https://icomoon.io/app/:

  documentation/_html/docgen-resources/fonts/icomoon.eot
  documentation/_html/docgen-resources/fonts/icomoon.svg
  documentation/_html/docgen-resources/fonts/icomoon.ttf
  documentation/_html/docgen-resources/fonts/icomoon.woff

The name, license, and attribution of each icon sets (fonts) used follows:

- The documentation includes icons from Entypo pictograms, version 2.0,
 by Daniel Bruce (http://www.entypo.com/, http://www.danielbruce.se/),
 licensed under Creative Commons Attribution-ShareAlike 3.0 (CC BY-SA 3.0)
 (http://creativecommons.org/licenses/by-sa/3.0/legalcode) and under SIL
 Open Font License 1.1 (http://scripts.sil.org/OFL).

- The documentation includes icons from Font Awesome by Dave Gandy
 (http://fontawesome.io), licensed under SIL Open Font License 1.1
  (http://scripts.sil.org/OFL).

- The documentation includes icons from Material Design icons by Google
 (http://google.github.io/material-design-icons/), licensed under
 Creative Common Attribution 4.0 International License (CC-BY 4.0)
 (https://creativecommons.org/licenses/by/4.0/).

==

1.142 jackson-databind 2.13.5

1.142.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.143 jackson-annotations 2.13.5

1.143.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

1.144 jackson 2.13.5

1.144.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this

License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.145 sdk-core 2.18.41
1.145.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems,
  and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
  this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
   Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
   stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
   that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.146 apache-client 2.18.41

1.146.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
Apache Commons Lang
Copyright 2001-2020
The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
      Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
     stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
     that You distribute, all copyright, patent, trademark, and
     attribution notices from the Source form of the Work,
     excluding those notices that do not pertain to any part of
     the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
     distribution, then any Derivative Works that You distribute must
     include a readable copy of the attribution notices contained
     within such NOTICE file, excluding
those notices that do not
     pertain to any part of the Derivative Works, in at least one
     of the following places: within a NOTICE text file distributed
     as part of the Derivative Works; within the Source form or
     documentation, if provided along with the Derivative Works; or,
     within a display generated by the Derivative Works, if and
     wherever such third-party notices normally appear. The contents
     of the NOTICE file are for informational purposes only and
     do not modify the License. You may add Your own attribution
     notices within Derivative Works that You distribute, alongside
     or as an addendum to the NOTICE text from the Work, provided
     that such additional attribution notices cannot be construed
     as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

1.147 cloudwatch 2.18.41

1.147.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS
****

This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute

copies of the

Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

1.148 regions 2.18.41

1.148.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS
****

This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
Apache Commons Lang
Copyright 2001-2020
The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.149 netty-nio-client 2.18.41

1.149.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-

2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                      Apache License
                  Version 2.0, January 2004
                http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership
 of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

 2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

 3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.150 utils 2.18.41

1.150.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

```
**********************
```
THIRD PARTY COMPONENTS
```
**********************
```
This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                    Apache License
                 Version 2.0, January 2004
                http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common
    control with that entity. For the purposes of this definition,
    "control" means (i) the power, direct or indirect, to cause the
    direction or management of such entity, whether by contract or
    otherwise, or (ii) ownership of fifty percent (50%) or more of the
    outstanding shares, or (iii) beneficial ownership
 of such entity.

    "You" (or "Your") shall mean an individual or Legal Entity
    exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this

License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.151 aws-core 2.18.41

1.151.1 Available under license :

AWS SDK for Java 2.0

Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by

Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.

- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.

- Apache Commons Lang - https://github.com/apache/commons-lang

- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams

- Jackson-core - https://github.com/FasterXML/jackson-core

- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct,
indirect, special,
  incidental, or consequential damages of any character arising as a
  result of this License or out of the use or inability to use the
  Work (including but not limited to damages for loss of goodwill,
  work stoppage, computer failure or malfunction, or any and all
  other commercial damages or losses), even if such Contributor
  has been advised of the possibility of such damages.

  9. Accepting Warranty or Additional Liability. While redistributing
  the Work or Derivative Works thereof, You may choose to offer,
  and charge a fee for, acceptance of support, warranty, indemnity,
  or other liability obligations and/or rights consistent with this
  License. However, in accepting such obligations, You may act only
  on Your own behalf and on Your sole responsibility, not on behalf
  of any other Contributor, and only if You agree to indemnify,
  defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
  of your accepting any such warranty or additional liability.

  END OF TERMS AND CONDITIONS

  APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

  Copyright [yyyy] [name of copyright owner]

  Licensed under the Apache License, Version 2.0 (the "License");
  you may not use this file except in compliance with the License.
  You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.

  Note: Other license terms may apply to certain, identified software files contained within or distributed

with the accompanying software if such terms are included in the directory containing the accompanying software. Such other license terms will then apply in lieu of the terms of the software license above.

1.152 protocol-core 2.18.41

1.152.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****

This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise

designed in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
   distribution, then any Derivative Works that You distribute must
   include a readable copy of the attribution notices contained
   within such NOTICE file, excluding
those notices that do not
   pertain to any part of the Derivative Works, in at least one
   of the following places: within a NOTICE text file distributed
   as part of the Derivative Works; within the Source form or
   documentation, if provided along with the Derivative Works; or,
   within a display generated by the Derivative Works, if and
   wherever such third-party notices normally appear. The contents
   of the NOTICE file are for informational purposes only and
   do not modify the License. You may add Your own attribution
   notices within Derivative Works that You distribute, alongside
   or as an addendum to the NOTICE text from the Work, provided
   that such additional attribution notices cannot be construed
   as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

 5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

 6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

 7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.153 client-spi 2.18.41

1.153.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****

This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial
revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed

with the accompanying software if such terms are included in the directory containing the accompanying software.

Such other license terms will then apply in lieu of the terms of the software license above.

1.154 annotations 2.18.41

1.154.1 Available under license :

AWS SDK for Java 2.0

Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by

Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.

- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.

- Apache Commons Lang - https://github.com/apache/commons-lang

- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams

- Jackson-core - https://github.com/FasterXML/jackson-core

- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:

Apache Commons Lang

Copyright 2001-2020

The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
  for any such Derivative Works as a whole, provided Your use,
  reproduction, and distribution of the Work otherwise complies with
  the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate

1.155 metrics-spi 2.18.41

1.155.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:

Apache Commons Lang
Copyright 2001-2020
The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

   4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

   for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
      any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.156 profiles 2.18.41

1.156.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams

- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                    Apache License
               Version 2.0, January 2004
             http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common
    control with that entity. For the purposes of this definition,
    "control" means (i) the power, direct or indirect, to cause the
    direction or management of such entity, whether by contract or
    otherwise, or (ii) ownership of fifty percent (50%) or more of the
    outstanding shares, or (iii) beneficial ownership
of such entity.

    "You" (or "Your") shall mean an individual or Legal Entity
    exercising permissions granted by this License.

    "Source" form shall mean the preferred form for making modifications,
    including but not limited to software source code, documentation
    source, and configuration files.

    "Object" form shall mean any form resulting from mechanical
    transformation or translation of a Source form, including but
    not limited to compiled object code, generated documentation,
    and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.157 auth 2.18.41

1.157.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this

License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.158 third-party-jackson-core 2.18.41

1.158.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).
Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.159 endpoints-spi 2.18.41

1.159.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

```
**********************
```

THIRD PARTY COMPONENTS

```
**********************
```

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                        Apache License
                   Version 2.0, January 2004
                  http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership
 of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.160 aws-query-protocol 2.18.41

1.160.1 Available under license :

AWS SDK for Java 2.0

Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by

Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.

- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.

- Apache Commons Lang - https://github.com/apache/commons-lang

- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams

- Jackson-core - https://github.com/FasterXML/jackson-core

- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:

Apache Commons Lang

Copyright 2001-2020

The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (https://www.apache.org/).

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed

with the accompanying software if such terms are included in the directory containing the accompanying software. Such other license terms will then apply in lieu of the terms of the software license above.

1.161 json-utils 2.18.41

1.161.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.162 poi-ooxml 5.2.3
1.162.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

  To apply the Apache License to your work, attach the following
  boilerplate notice, with the fields enclosed by brackets "[]"
  replaced with your own identifying information. (Don't include
  the brackets!) The text should be enclosed in the appropriate
  comment syntax for the file format. We also recommend that a
  file or class name and description of purpose be included on the
  same "printed page" as the copyright notice for easier
  identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE POI SUBCOMPONENTS:

Apache POI includes subcomponents with separate copyright notices and
license terms. Your use of these subcomponents is subject to the terms
and conditions of the following licenses:

Office Open XML schemas (poi-ooxml-full-*.jar)

  The Office Open XML schema definitions used by Apache POI are
  a part of the Office Open XML ECMA Specification (ECMA-376, [1]).
  As defined in section 9.4 of the ECMA bylaws [2], this specification
  is available to all interested parties without restriction:

9.4 All documents when approved shall be made available to
all interested parties without
restriction.

Furthermore, both Microsoft and Adobe have granted patent licenses
to this work [3,4,5].

[1] http://www.ecma-international.org/publications/standards/Ecma-376.htm
[2] http://www.ecma-international.org/memento/Ecmabylaws.htm
[3] http://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx
[4] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/
Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf
[5] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/
Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf

Bouncy Castle library (bcprov-*.jar, bcpg-*.jar, bcpkix-*.jar)

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc.
(https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

CurvesAPI / Curve API

BSD License

Copyright (c) 2000-2015
www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. Neither the name of Hamcrest nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Log4j 2 library (log4j-api-*.jar)

Apache License Version 2.0

inbot-utils (https://github.com/Inbot/inbot-utils)

The MIT License (MIT)

Copyright (c) 2015 Inbot

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache POI

Copyright 2003-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This product contains parts that were originally based on software from BEA.
Copyright (c) 2000-2003, BEA Systems, <http://www.bea.com/> (dead link),
which was acquired by Oracle Corporation in 2008.
<http://www.oracle.com/us/corporate/Acquisitions/bea/index.html>
<https://en.wikipedia.org/wiki/BEA_Systems>
Note: The ASF Secretary has on hand a Software Grant Agreement (SGA) from
BEA Systems, Inc. dated 9 Sep 2003 for XMLBeans signed by their EVP/CFO.

This product contains W3C XML Schema documents. Copyright 2001-2003 (c)
World Wide Web Consortium (Massachusetts Institute of Technology, European
Research Consortium for Informatics and Mathematics, Keio University)

This product contains the chunks_parse_cmds.tbl file from the vsdump program.
Copyright (C) 2006-2007 Valek Filippov (frob@df.ru)

This product contains parts of
 the eID Applet project
<http://eid-applet.googlecode.com> and <https://github.com/e-Contract/eid-applet>.
Copyright (c) 2009-2018
FedICT (federal ICT department of Belgium), e-Contract.be BVBA (https://www.e-contract.be),
Bart Hanssens from FedICT

1.163 txw2 2.3.8

1.163.1 Available under license :

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 - Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 - Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

- Neither the name of the Eclipse Foundation, Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE
 DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Notices for Eclipse Implementation of JAXB

This content is produced and maintained by the Eclipse Implementation of JAXB
project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxb-impl

Trademarks

Eclipse Implementation of JAXB is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Distribution License v. 1.0 which is available at
http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri

* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
*
 https://github.com/eclipse-ee4j/jaxb-stax-ex
* https://github.com/eclipse-ee4j/jax-rpc-ri

Third-party Content

This project leverages the following third party content.

Apache Ant (1.10.2)

* License: Apache-2.0 AND W3C AND LicenseRef-Public-Domain

Apache Ant (1.10.2)

* License: Apache-2.0 AND W3C AND LicenseRef-Public-Domain

Apache Felix (1.2.0)

* License: Apache License, 2.0

args4j (2.33)

* License: MIT License

dom4j (1.6.1)

* License: Custom license based on Apache 1.1

file-management (3.0.0)

* License: Apache-2.0
* Project: https://maven.apache.org/shared/file-management/
* Source:
  https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/

JUnit (4.12)

* License: Eclipse Public License

JUnit (4.12)

* License: Eclipse Public License

maven-compat (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-compat/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core
 (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source:
  https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-connector-basic (1.1.1)

* License: Apache-2.0

maven-resolver-impl (1.1.1)

* License: Apache-2.0

maven-resolver-spi (1.1.1)

* License: Apache-2.0

maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:

https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

* License: Apache-2.0

maven-settings
 (3.5.2)

* License: Apache-2.0
* Source:
 https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

OSGi Service Platform Core Companion Code (6.0)

* License: Apache License, 2.0

plexus-archiver (3.5)

* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

* License: Apache-2.0

plexus-utils (3.1.0)

* License: Apache- 2.0 or Apache- 1.1 or BSD or Public Domain or Indiana
 University Extreme! Lab Software License V1.1.1 (Apache 1.1 style)

relaxng-datatype (1.0)

* License: New BSD license

Sax (0.2)

* License: SAX-PD
* Project: http://www.megginson.com/downloads/SAX/
* Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
*
 Project: https://maven.apache.org/wagon/
* Source:
 https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

xz for java (1.8)

* License: LicenseRef-Public-Domain

Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

1.164 spec-alpha 0.2.194
1.164.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Eclipse Public License 1.0</name>

Found in path(s):
* /opt/cola/permits/1578118055_1677536816.25481/0/spec-alpha-0-2-194-1-jar/META-
INF/maven/org.clojure/spec.alpha/pom.xml
No license file was found, but licenses were detected in source scan.

; Copyright (c) Rich Hickey. All rights reserved.
; Eclipse Public License 1.0 (http://opensource.org/licenses/eclipse-1.0.php)

Found in path(s):
* /opt/cola/permits/1578118055_1677536816.25481/0/spec-alpha-0-2-194-1-jar/clojure/spec/test/alpha.clj
* /opt/cola/permits/1578118055_1677536816.25481/0/spec-alpha-0-2-194-1-jar/clojure/spec/gen/alpha.clj
* /opt/cola/permits/1578118055_1677536816.25481/0/spec-alpha-0-2-194-1-jar/clojure/spec/alpha.clj

1.165 jackson-datatype-jdk8 2.13.5

1.165.1 Available under license :

Apache-2.0

1.166 jackson-datatype-jsr310 2.13.5

1.166.1 Available under license :

This copy of Jackson JSON processor streaming parser/generator is licensed under the

Apache (Software) License, version 2.0 ("the License").

See the License for details about distribution rights, and the

specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

1.167 jackson-module-parameter-names 2.13.5

1.167.1 Available under license :

Apache-2.0

1.168 snake-yaml 2.0

1.168.1 Available under license :

No license file was found, but licenses were detected in source scan.

/**

* Copyright (c) 2008, SnakeYAML

*

* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except

* in compliance with the License. You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software distributed under the License

* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express

* or implied. See the License for the specific language governing permissions and limitations under

* the License.

*/

Found in path(s):

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-

jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/parser/Parser.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/ValueToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/StreamEndEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/AliasEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/ScalarEvent.java
*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/StreamStartEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/CommentEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/AliasToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/constructor/Construct.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/ImplicitTuple.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java
*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/introspector/Property.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/parser/Production.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/scanner/Scanner.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java

*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/DumperOptions.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/AnchorNode.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/representer/Represent.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Node.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/ReaderException.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java

*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/Constant.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/ParserImpl.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/ScalarToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java

*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/UriEncoder.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-

jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/nodes/CollectionNode.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/constructor/ConstructorException.java
*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/Yaml.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/parser/ParserException.java
*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/representer/Representer.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/nodes/NodeTuple.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/inspector/TrustedTagInspector.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/serializer/Serializer.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/introspector/FieldProperty.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/introspector/BeanAccess.java
*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/comments/CommentLine.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-

jar/org/yaml/snakeyaml/LoaderOptions.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TrustedPrefixesTagInspector.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/Mark.java

*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/YAMLException.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/TypeDescription.java

*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/Resolver.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java

*

/opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/Token.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java

*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/Composer.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Tag.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java

*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/internal/Logger.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java

* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/Event.java
*
 /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2008 Google Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-jar/META-INF/maven/org.yaml.snakeyaml/pom.xml

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
   stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
   that You distribute, all copyright, patent, trademark, and
   attribution notices from the Source form of the Work,
   excluding those notices that do not pertain to any part of
   the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
   distribution, then any Derivative Works that You distribute must
   include a readable copy of the attribution notices contained
   within such NOTICE file, excluding
those notices that do not
   pertain to any part of the Derivative Works, in at least one
   of the following places: within a NOTICE text file distributed
   as part of the Derivative Works; within the Source form or
   documentation, if provided along with the Derivative Works; or,
   within a display generated by the Derivative Works, if and
   wherever such third-party notices normally appear. The contents
   of the NOTICE file are for informational purposes only and
   do not modify the License. You may add Your own attribution
   notices within Derivative Works that You distribute, alongside
   or as an addendum to the NOTICE text from the Work, provided
   that such additional attribution notices cannot be construed
   as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
No license file was found, but licenses were detected in source scan.

// This module is multi-licensed and may be used under the terms
// EPL, Eclipse Public License, V1.0 or later, http://www.eclipse.org/legal
// LGPL, GNU Lesser General Public License, V2.1 or later, http://www.gnu.org/licenses/lgpl.html
// GPL, GNU General Public License, V2 or later, http://www.gnu.org/licenses/gpl.html
// AL, Apache License, V2.0 or later, http://www.apache.org/licenses
// BSD, BSD License, http://www.opensource.org/licenses/bsd-license.php
/**
* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: www.
* source-code.biz/base64coder/java
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland
* Multi-licensed: EPL / LGPL / GPL / AL / BSD.
*/

Found in path(s):
* /opt/cola/permits/1584157893_1677999786.1262538/0/snakeyaml-2-0-sources-
jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

1.169 jackson-dataformat-xml 2.13.5

1.169.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.170 jackson-dataformat-yaml 2.13.5

1.170.1 Available under license :

This copy of Jackson JSON processor YAML module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0
Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

Licensing

Jackson core and extension components may be licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

1.171 spring-cloud-openfeign-core 3.1.6

1.171.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/META-
INF/maven/org.springframework.cloud/spring-cloud-openfeign-core/pom.xml
No license file was found, but licenses were detected in source scan.

/*

* Copyright 2016-2021 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/HttpMessageConverterCustomizer.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/hateoas/WebConvertersCustomizer.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015-2022 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/security/OAuth2FeignRequestInterceptorConfigurer.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/security/OAuth2FeignRequestInterceptor.java
*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/security/OAuth2AccessTokenInterceptor.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2013-2022 the original author or authors.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *      https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignCachingInvocationHandlerFactory.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignAutoConfiguration.java
*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/SpringDecoder.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignCircuitBreakerTargeter.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/encoding/FeignContentGzipEncodingInterceptor.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignCircuitBreakerDisabledConditions.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/SortJacksonModule.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/CollectionFormat.java
*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/encoding/FeignAcceptGzipEncodingInterceptor.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/annotation/RequestPartParameterProcessor.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/loadbalancer/OnRetryNotEnabledCondition.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignClientProperties.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/EnableFeignClients.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/clientconfig/HttpClientFeignConfiguration.java
*

/opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/FeignEncoderProperties.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignClientFactoryBean.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/annotation/CookieValueParameterProcessor.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/annotation/RequestParamParameterProcessor.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/clientconfig/FeignClientConfigurer.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/loadbalancer/DefaultFeignLoadBalancerConfiguration.java

*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/AnnotatedParameterProcessor.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/Targeter.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/CircuitBreakerNameResolver.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/loadbalancer/HttpClientFeignLoadBalancerConfiguration.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignCircuitBreaker.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/EmptyObjectProvider.java

*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/SortJsonComponent.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/loadbalancer/HttpClient5FeignLoadBalancerConfiguration.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/FeignUtils.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/encoding/FeignClientEncodingProperties.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/CachingCapability.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/loadbalancer/FeignBlockingLoadBalancerClient.java

*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/ResponseEntityDecoder.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignClientBuilder.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/encoding/BaseRequestInterceptor.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/PageJacksonModule.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-

jar/org/springframework/cloud/openfeign/FeignContext.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/loadbalancer/LoadBalancerUtils.java
*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/loadbalancer/FeignLoadBalancerAutoConfiguration.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/loadbalancer/RetryableFeignBlockingLoadBalancerClient.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/annotation/MatrixVariableParameterProcessor.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignFormatterRegistrar.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/OptionsFactoryBean.java
*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignClientsRegistrar.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/DefaultTargeter.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/FeignHttpClientProperties.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/AbstractFormWriter.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/SpringEncoder.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignBuilderCustomizer.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/PageableSpringQueryMapEncoder.java
*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/support/JsonFormWriter.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FallbackFactory.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/annotation/PathVariableParameterProcessor.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/clientconfig/OkHttpFeignConfiguration.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/annotation/RequestHeaderParameterProcessor.java
*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignClientSpecification.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/HttpClient5DisabledConditions.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/clientconfig/HttpClient5FeignConfiguration.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-

jar/org/springframework/cloud/openfeign/loadbalancer/LoadBalancerResponseStatusCodeException.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/support/PageableSpringEncoder.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/SpringQueryMap.java
*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/FeignClientsConfiguration.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/FeignClient.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/annotation/QueryMapParameterProcessor.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/loadbalancer/OkHttpFeignLoadBalancerConfiguration.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/encoding/HttpEncoding.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013-2023 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/FeignCircuitBreakerInvocationHandler.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/encoding/FeignContentGzipEncodingAutoConfiguration.java
*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/support/SpringMvcContract.java
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/encoding/FeignAcceptGzipEncodingAutoConfiguration.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015-2021 the original author or authors.

Found in path(s):
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/security/OAuth2FeignRequestInterceptorBuilder.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/encoding/OkHttpFeignClientBeanMissingCondition.java
No license file was found, but licenses were detected in source scan.

*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignErrorDecoderFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021-2022 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-jar/org/springframework/cloud/openfeign/FeignClientMetricsEnabledCondition.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016-2022 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

```
*/
```

Found in path(s):

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/hateoas/FeignHalAutoConfiguration.java

* /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/FeignLoggerFactory.java

*
 /opt/cola/permits/1594604578_1678876653.906514/0/spring-cloud-openfeign-core-3-1-6-sources-
jar/org/springframework/cloud/openfeign/DefaultFeignLoggerFactory.java

1.172 spring-cloud-context 3.1.6

1.172.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/META-
INF/maven/org.springframework.cloud/spring-cloud-context/pom.xml
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2013-2020 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-
jar/org/springframework/cloud/bootstrap/encrypt/EnvironmentDecryptApplicationInitializer.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-

jar/org/springframework/cloud/util/PropertyUtils.java

*

 /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-
jar/org/springframework/cloud/bootstrap/encrypt/DecryptEnvironmentPostProcessor.java

* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-
jar/org/springframework/cloud/util/ConditionalOnBootstrapEnabled.java

* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-
jar/org/springframework/cloud/bootstrap/support/OriginTrackedCompositePropertySource.java

* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-
jar/org/springframework/cloud/bootstrap/TextEncryptorBindHandler.java

* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-
jar/org/springframework/cloud/bootstrap/encrypt/AbstractEnvironmentDecrypt.java

* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-
jar/org/springframework/cloud/util/ConditionalOnBootstrapDisabled.java

*

 /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-
jar/org/springframework/cloud/bootstrap/BootstrapConfigFileApplicationListener.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013-2021 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-
jar/org/springframework/cloud/bootstrap/encrypt/TextEncryptorUtils.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012-2020 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0

Found in path(s):
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/environment/WritableEnvironmentEndpointWebExtension.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/BootstrapConfiguration.java
*
 /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/environment/WritableEnvironmentEndpoint.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/encrypt/EncryptionBootstrapConfiguration.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/restart/RestartEndpoint.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/scope/StandardScopeCache.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/encrypt/KeyFormatException.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/autoconfigure/RefreshAutoConfiguration.java
*
 /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/encrypt/KeyProperties.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/logging/LoggingRebinder.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/config/PropertySourceLocator.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/refresh/ConfigDataContextRefresher.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/autoconfigure/WritableEnvironmentEndpointAutoConfiguration.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/refresh/LegacyContextRefresher.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/named/ClientFactoryObjectProvider.java
*
 /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/scope/GenericScope.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/scope/refresh/RefreshScopeRefreshedEvent.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/encrypt/EncryptorFactory.java

* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/LoggingSystemShutdownListener.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/config/PropertySourceBootstrapConfiguration.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/config/annotation/RefreshScope.java
*
 /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/TextEncryptorConfigBootstrapper.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/BootstrapApplicationListener.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/autoconfigure/RefreshEndpointAutoConfiguration.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/RefreshBootstrapRegistryInitializer.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/scope/ScopeCache.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/health/RefreshScopeHealthIndicator.java
*
 /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/properties/ConfigurationPropertiesRebinder.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/util/random/CachedRandomPropertySourceEnvironmentPostProcessor.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/autoconfigure/ConfigurationPropertiesRebinderAutoConfiguration.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/environment/EnvironmentChangeEvent.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/BootstrapImportSelectorConfiguration.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/refresh/ContextRefresher.java
*
 /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/scope/thread/ThreadScope.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/util/ProxyUtils.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/config/SimpleBootstrapPropertySource.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/autoconfigure/LifecycleMvcEndpointAutoConfiguration.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/restart/RestartListener.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/scope/thread/ThreadLocalScopeCache.java
*
 /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/util/random/CachedRandomPropertySource.java

* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/endpoint/event/RefreshEventListener.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/endpoint/event/RefreshEvent.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/BootstrapImportSelector.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/properties/ConfigurationPropertiesBeans.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/env/EnvironmentUtils.java
*
 /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/named/NamedContextFactory.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/config/BootstrapPropertySource.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/endpoint/RefreshEndpoint.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/environment/EnvironmentManager.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/scope/refresh/RefreshScope.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/encrypt/RsaProperties.java
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/bootstrap/config/PropertySourceBootstrapProperties.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2020-2020 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1594604586_1678981903.7485027/0/spring-cloud-context-3-1-6-sources-jar/org/springframework/cloud/context/restart/PauseHandler.java

1.173 spring-cloud-commons 3.1.6

1.173.1 Available under license :

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.174 json-java 20230227

1.174.1 Available under license :

Public Domain.

1.175 spring-security-config 5.7.7

1.175.1 Available under license :

Apache-2.0

1.176 brave-instrumentation-mongodb 5.13.9

1.176.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to

communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software
   distributed under the License is distributed on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
   See the License for the specific language governing permissions and
   limitations under the License.
Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.177 brave-instrumentation-kafka-clients 5.13.9

1.177.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.178 brave-instrumentation-httpasyncclient 5.13.9

1.178.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.179 brave-instrumentation-messaging 5.13.9

1.179.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

 2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

 3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

 (a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.180 brave-instrumentation-kafka-streams 5.13.9

1.180.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{ }"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.181 brave-instrumentation-spring-rabbit 5.13.9

1.181.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License,
each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.182 brave-instrumentation-rpc 5.13.9

1.182.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.183 brave-instrumentation-jms 5.13.9

1.183.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License,
each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
      Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.184 brave-instrumentation-httpclient 5.13.9

1.184.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
   stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
   that You distribute, all copyright, patent, trademark, and
   attribution notices from the Source form of the Work,
   excluding those notices that do not pertain to any part of
   the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
   distribution, then any Derivative Works that You distribute must
   include a readable copy of the attribution notices contained
   within such NOTICE file, excluding
those notices that do not
   pertain to any part of the Derivative Works, in at least one
   of the following places: within a NOTICE text file distributed
   as part of the Derivative Works; within the Source form or
   documentation, if provided along with the Derivative Works; or,
   within a display generated by the Derivative Works, if and
   wherever such third-party notices normally appear. The contents
   of the NOTICE file are for informational purposes only and
   do not modify the License. You may add Your own attribution
   notices within Derivative Works that You distribute, alongside
   or as an addendum to the NOTICE text from the Work, provided
   that such additional attribution notices cannot be construed
   as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.185 brave-context-slf4j 5.13.9

1.185.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
Brave

Copyright 2013-2020 The OpenZipkin Authors

This product contains a modified portion of 'InetAddresses', distributed
by Google in the Guava Library:

 * Copyright (C) 2008 The Guava Authors
 * License: Apache License v2.0
 * Homepage: https://github.com/google/guava

This product contains a modified portion of 'JsonUtf8Writer', distributed
by Square, Inc in the Moshi Library:

 * Copyright (C) 2010 Google Inc.
 * License: Apache License v2.0
 * Homepage: https://github.com/square/moshi

This product contains a modified portion of 'WeakConcurrentMap', distributed
by Rafael Winterhalter in the weak-lock-free Library:

 * License: Apache License v2.0
 * Homepage: https://github.com/raphw/weak-lock-free

1.186 brave-propagation-aws 0.21.3

1.186.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016-2020 The OpenZipkin Authors

*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1606595211_1679416833.5007722/0/brave-propagation-aws-0-21-3-sources-1-
jar/brave/propagation/aws/AWSInjector.java
* /opt/cola/permits/1606595211_1679416833.5007722/0/brave-propagation-aws-0-21-3-sources-1-
jar/brave/propagation/aws/AWSExtractor.java
* /opt/cola/permits/1606595211_1679416833.5007722/0/brave-propagation-aws-0-21-3-sources-1-
jar/brave/propagation/aws/AWSPropagation.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016-2018 The OpenZipkin Authors
*
* Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
* in compliance with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1606595211_1679416833.5007722/0/brave-propagation-aws-0-21-3-sources-1-
jar/brave/propagation/aws/HexCodec.java
No license file was found, but licenses were detected in source scan.

<!--

  Copyright 2016-2020 The OpenZipkin Authors

  Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
  in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

   Unless required by applicable law or agreed to in writing, software distributed under the License
   is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
   or implied. See the License for the specific language governing permissions and limitations under
   the License.

-->

Found in path(s):
* /opt/cola/permits/1606595211_1679416833.5007722/0/brave-propagation-aws-0-21-3-sources-1-jar/META-
INF/maven/io.zipkin.aws/brave-propagation-aws/pom.xml

1.187 ooxml-schemas 5.2.3
1.187.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership
   of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this

License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
      Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
      stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
      that You distribute, all copyright, patent, trademark, and
      attribution notices from the Source form of the Work,
      excluding those notices that do not pertain to any part of
      the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
      distribution, then any Derivative Works that You distribute must
      include a readable copy of the attribution notices contained
      within such NOTICE file, excluding
those notices that do not
      pertain to any part of the Derivative Works, in at least one
      of the following places: within a NOTICE text file distributed
      as part of the Derivative Works; within the Source form or
      documentation, if provided along with the Derivative Works; or,
      within a display generated by the Derivative Works, if and
      wherever such third-party notices normally appear. The contents
      of the NOTICE file are for informational purposes only and
      do not modify the License. You may add Your own attribution
      notices within Derivative Works that You distribute, alongside
      or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE POI SUBCOMPONENTS:

Apache POI includes subcomponents with separate copyright notices and
license terms. Your use of these subcomponents is subject to the terms
and conditions of the following licenses:

Office Open XML schemas (poi-ooxml-full-*.jar)

The Office Open XML schema definitions used by Apache POI are
a part of the Office Open XML ECMA Specification (ECMA-376, [1]).
As defined in section 9.4 of the ECMA bylaws [2], this specification
is available to all interested parties without restriction:

9.4 All documents when approved shall be made available to
all interested parties without
restriction.

Furthermore, both Microsoft and Adobe have granted patent licenses
to this work [3,4,5].

[1] http://www.ecma-international.org/publications/standards/Ecma-376.htm
[2] http://www.ecma-international.org/memento/Ecmabylaws.htm
[3] http://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx
[4] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/
Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf
[5] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/
Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf

Bouncy Castle library (bcprov-*.jar, bcpg-*.jar, bcpkix-*.jar)

Copyright (c) 2000 - 2021 The Legion of the Bouncy Castle Inc.
(https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

CurvesAPI / Curve API

BSD License

Copyright (c) 2000-2015
www.hamcrest.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer. Redistributions in
binary form must reproduce the above copyright notice, this list of
conditions and the following disclaimer in the documentation and/or other
materials provided with the distribution. Neither the name of Hamcrest nor
the names of its contributors may be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Log4j 2 library (log4j-api-*.jar)

Apache License Version 2.0

inbot-utils (https://github.com/Inbot/inbot-utils)

The MIT License (MIT)

Copyright (c) 2015 Inbot

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Apache POI
Copyright 2003-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This product contains parts that were originally based on software from BEA.
Copyright (c) 2000-2003, BEA Systems, <http://www.bea.com/> (dead link),
which was acquired by Oracle Corporation in 2008.
<http://www.oracle.com/us/corporate/Acquisitions/bea/index.html>
<https://en.wikipedia.org/wiki/BEA_Systems>
Note: The ASF Secretary has on hand a Software Grant Agreement (SGA) from
BEA Systems, Inc. dated 9 Sep 2003 for XMLBeans signed by their EVP/CFO.

This product contains W3C XML Schema documents. Copyright 2001-2003 (c)
World Wide Web Consortium (Massachusetts Institute of Technology, European
Research Consortium for Informatics and Mathematics, Keio University)

This product contains the chunks_parse_cmds.tbl file from the vsdump program.
Copyright (C) 2006-2007 Valek Filippov (frob@df.ru)

This product contains parts of
 the eID Applet project
<http://eid-applet.googlecode.com> and <https://github.com/e-Contract/eid-applet>.
Copyright (c) 2009-2018
FedICT (federal ICT department of Belgium), e-Contract.be BVBA (https://www.e-contract.be),
Bart Hanssens from FedICT

1.188 evictor 1.0.0

1.188.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

1.189 spring-cloud-sleuth-api 3.1.7

1.189.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2013-2021 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/HttpRequestParser.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/HttpResponse.java

*
 /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/CurrentTraceContext.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/docs/AssertingSpan.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/docs/TagKey.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-

jar/org/springframework/cloud/sleuth/BaggageInScope.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/annotation/TagValueResolver.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/SpanCustomizer.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/docs/DocumentedSpanAssertions.java

*

 /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/HttpResponseParser.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/docs/ImmutableAssertingSpanBuilder.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/TraceContext.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/annotation/NewSpan.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/ThreadLocalSpan.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/docs/AssertingSpanBuilder.java

*

 /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/HttpServerHandler.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/annotation/TagValueExpressionResolver.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/SpanName.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/docs/EventValue.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/Span.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/ScopedSpan.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/annotation/ContinueSpan.java

*

 /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/exporter/SpanReporter.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/HttpClientRequest.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/annotation/SpanTag.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/SamplerFunction.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/Response.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/docs/ImmutableAssertingSpanCustomizer.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/exporter/SpanFilter.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/propagation/Propagator.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/docs/ImmutableAssertingSpan.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/Request.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/annotation/SleuthMethodInvocationProcessor.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/HttpRequest.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/exporter/SpanIgnoringSpanFilter.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/annotation/NoOpTagValueResolver.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/BaggageManager.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/HttpServerResponse.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/Taggable.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/Tracer.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/exporter/FinishedSpan.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/SpanNamer.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/HttpClientHandler.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/HttpServerRequest.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/annotation/NewSpanParser.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/SpanAndScope.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/docs/DocumentedSpan.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/http/HttpClientResponse.java

* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/org/springframework/cloud/sleuth/docs/AssertingSpanCustomizer.java

No license file was found, but licenses were detected in source scan.

<!--
~ Copyright 2013-2018 the original author or authors.
~
~ Licensed under the Apache License, Version 2.0 (the "License");
~ you may not use this file except in compliance with the License.
~ You may obtain a copy of the License at
~
~   https://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS,
~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
~ See the License for the specific language governing permissions and
~ limitations under the License.
-->

Found in path(s):
* /opt/cola/permits/1612247575_1680503819.6124294/0/spring-cloud-sleuth-api-3-1-7-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-sleuth-api/pom.xml

1.190 spring-cloud-sleuth-autoconfigure 3.1.7
1.190.1 Available under license :
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013-2021 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/batch/TraceStepBuilderFactoryBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/cassandra/TraceCassandraReactiveAutoConfiguration.java

*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/task/TraceApplicationRunnerBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/BraveBridgeConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/redis/TraceLettuceClientResourcesBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/task/TraceCommandLineRunnerBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/SingleSkipPattern.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/tx/AbstractTransactionManagerInstrumenter.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/mongodb/TraceMongoDbAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinSenderConfigurationImportSelector.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/actuate/BufferingSpanReporter.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/redis/TraceRedisProperties.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/TraceWebClientAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/async/TraceAsyncDefaultAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/SleuthHttpProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/SleuthProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/rxjava/SleuthRxJavaSchedulersProperties.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/grpc/BraveGrpcAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/actuate/SleuthActuatorProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/circuitbreaker/TraceCircuitBreakerAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/TracingKafkaAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/jdbc/TraceDataSourceDecoratorBeanPostProcessor.java

*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/tx/TraceTxAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/TraceGatewayEnvironmentPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/TraceWebServletConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/redis/BraveRedisAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/rsocket/SleuthRSocketProperties.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/web/BraveHttpConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/ConditionalOnSleuthWeb.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinSenderProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/BraveAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/tx/ReactiveTransactionManagerInstrumenter.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/redis/TraceRedisAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/r2dbc/TraceConnectionFactoryBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/jdbc/TraceJdbcAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/reactor/TraceReactorAutoConfigurationAccessorConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/ConditionalOnSleuthHttp.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/ConditionalnOnSleuthWebClient.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/cassandra/TraceReactiveSessionBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/SleuthBaggageProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/async/ExecutorBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/rpc/BraveRpcAutoConfiguration.java
*

/opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/TraceWebAutoConfiguration.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/BraveSamplerConfiguration.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/messaging/SleuthIntegrationMessagingProperties.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/SamplerProperties.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/jdbc/DataSourceProxyConfiguration.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/quartz/TraceQuartzAutoConfiguration.java

*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/r2dbc/TraceProxyConnectionFactoryWrapper.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/TraceWebAsyncClientAutoConfiguration.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/TraceWebMvcConfigurer.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/session/TraceSessionAutoConfiguration.java

*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/actuate/FinishedSpanWriter.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/TracingReactorKafkaAutoConfiguration.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/messaging/TraceSpringMessagingAutoConfiguration.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/feign/TraceFeignClientAutoConfiguration.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/client/feign/SleuthFeignProperties.java

*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/SpringKafkaFactoryBeanPostProcessor.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/messaging/TraceSpringIntegrationAutoConfiguration.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/actuate/TextOutputFormat.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/cassandra/TraceCqlSessionBeanPostProcessor.java

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/BraveBaggageConfiguration.java

*

/opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/async/TraceAsyncAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/deployer/TraceAppDeployerBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/tx/PlatformTransactionManagerInstrumenter.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/SamplerCondition.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinRabbitSenderConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/SpringKafkaProducerPostProcessor.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/SpringKafkaAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/messaging/SleuthMessagingProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinSenderCondition.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinHttpSenderConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/rsocket/TraceRSocketAutoConfiguration.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/web/BraveHttpBridgeConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/actuate/TracesScrapeEndpoint.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/messaging/BraveMessagingAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/jdbc/P6SpyPropertiesSetter.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/TraceHandlerFunctionAdapterBeanPostProcessor.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/mongodb/BraveMongoDbAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/messaging/TraceWebSocketAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/actuate/BraveFinishedSpanWriter.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/async/SleuthAsyncProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/async/TraceAsyncCustomAutoConfiguration.java

*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/actuate/TraceSleuthActuatorAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/r2dbc/TraceR2dbcAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/SleuthOpentracingProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/SleuthAnnotationConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinAutoConfiguration.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/ConditionalOnBraveEnabled.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/circuitbreaker/SleuthCircuitBreakerProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/TraceConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/jdbc/P6SpyConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/TraceWebFluxConfiguration.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/messaging/TraceFunctionAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/tx/TracePlatformTransactionManagerBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinKafkaSenderConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/SleuthSpanFilterProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/batch/TraceJobBuilderFactoryBeanPostProcessor.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinBraveConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/task/TraceTaskAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/opentracing/BraveOpentracingAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/SpringKafkaConsumerPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/SleuthWebProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/batch/TraceBatchAutoConfiguration.java

*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/config/TraceSpringCloudConfigAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/tx/TraceReactiveTransactionManagerBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/web/client/BraveWebClientAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/TracingKafkaConsumerBeanPostProcessor.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/jdbc/TraceJdbcProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/SleuthTracerProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/tx/TraceKafkaPlatformTransactionManagerBeanPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/zipkin2/ZipkinActiveMqSenderConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/TraceEnvironmentPostProcessor.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/reactor/SleuthReactorProperties.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/instrument/messaging/BraveKafkaStreamsAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/scheduling/TraceSchedulingAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/rxjava/TraceRxJavaAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/cassandra/TraceCassandraAutoConfiguration.java
*
 /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/scheduling/SleuthSchedulingProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/brave/SleuthPropagationProperties.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/web/SkipPatternConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/deployer/TraceDeployerAutoConfiguration.java
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/kafka/TracingKafkaProducerBeanPostProcessor.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013-2023 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/reactor/TraceReactorAutoConfiguration.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021-2021 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/security/TraceSecurityAutoConfiguration.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2022-2022 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/org/springframework/cloud/sleuth/autoconfig/instrument/prometheus/PrometheusExemplarsAutoConfiguration.java

No license file was found, but licenses were detected in source scan.

<!--

 ~ Copyright 2013-2018 the original author or authors.

 ~

 ~ Licensed under the Apache License, Version 2.0 (the "License");

 ~ you may not use this file except in compliance with the License.

 ~ You may obtain a copy of the License at

 ~

 ~   https://www.apache.org/licenses/LICENSE-2.0

 ~

 ~ Unless required by applicable law or agreed to in writing, software

 ~ distributed under the License is distributed on an "AS IS" BASIS,

 ~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

 ~ See the License for the specific language governing permissions and

 ~ limitations under the License.

-->

Found in path(s):

* /opt/cola/permits/1612247639_1679586990.206736/0/spring-cloud-sleuth-autoconfigure-3-1-7-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-sleuth-autoconfigure/pom.xml

1.191 spring-cloud-sleuth-brave 3.1.7

1.191.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--

 ~ Copyright 2013-2018 the original author or authors.

 ~

 ~ Licensed under the Apache License, Version 2.0 (the "License");

~ you may not use this file except in compliance with the License.

~ You may obtain a copy of the License at

~

~　　https://www.apache.org/licenses/LICENSE-2.0

~

~ Unless required by applicable law or agreed to in writing, software

~ distributed under the License is distributed on an "AS IS" BASIS,

~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

~ See the License for the specific language governing permissions and

~ limitations under the License.

-->

Found in path(s):

* /opt/cola/permits/1612247670_1679586993.3411884/0/spring-cloud-sleuth-brave-3-1-7-jar/META-INF/maven/org.springframework.cloud/spring-cloud-sleuth-brave/pom.xml

1.192 spring-cloud-sleuth-instrumentation 3.1.7

1.192.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2013-2020 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*　　https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/kafka/KafkaTracingUtils.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2013-2018 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/LazyTraceScheduledThreadPoolExecutor.java
No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2013-2018 the original author or authors.
 ~
 ~ Licensed under the Apache License, Version 2.0 (the "License");
 ~ you may not use this file except in compliance with the License.
 ~ You may obtain a copy of the License at
 ~
 ~   https://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS,
 ~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 ~ See the License for the specific language governing permissions and
 ~ limitations under the License.
 -->

Found in path(s):
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-sleuth-instrumentation/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013-2021 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*

Found in path(s):
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/AbstractHttpHeadersFilter.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/internal/LazyBean.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/internal/EncodingUtils.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/mongodb/TraceMongoClusterIdSpanCustomizer.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/annotation/SpelTagValueExpressionResolver.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/FeignContextBeanPostProcessor.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/TraceDefaultOAuth2UserServiceCustomizer.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/HttpClientResponseParser.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/SpanFromContextRetriever.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/annotation/ReactorSleuthMethodInvocationProcessor.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/config/TraceEnvironmentRepositoryAspect.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/SleuthWebSpan.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/DataSourceDecorator.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rsocket/ByteBufGetter.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/tx/TraceReactiveTransactionManager.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/internal/SpanNameUtil.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/RestTemplateInterceptorInjector.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/TraceListenerStrategySpanCustomizer.java
*

/opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/redis/TraceLettuceClientResourcesBuilderCustomizer.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/annotation/SleuthAnnotationSpan.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/mongodb/TraceReactiveMongoClientSettingsBuilderCustomizer.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/HttpClientRequestParser.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/HttpClientBeanPostProcessor.java
*
/opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/TraceRestTemplateBeanPostProcessor.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/TraceRestTemplateCustomizer.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rsocket/PayloadUtils.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/TraceRetryableFeignBlockingLoadBalancerClient.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/DataSourceNameResolver.java
*
/opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/TraceFeignObjectWrapper.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/reactor/TraceContextPropagator.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rsocket/TracingRSocketConnectorConfigurer.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rsocket/TracingResponderRSocketProxy.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/scheduling/SleuthSchedulingSpan.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/deployer/SleuthDeployerSpan.java
*
/opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/WebFluxSleuthOperators.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/annotation/SpanTagAnnotationHandler.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/kafka/SleuthKafkaSpan.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/TraceListenerStrategy.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/TraceFeignAspect.java
*

/opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/annotation/SleuthAdvisorConfig.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rxjava/SleuthRxJavaSpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/SkipPatternProvider.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/TraceResponseHttpHeadersFilter.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/servlet/ServletRuntime.java

*

 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/LazyTraceExecutor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/mvc/SpanCustomizingHandlerInterceptor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/messaging/FunctionMessageSpanCustomizer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/TraceableScheduledExecutorService.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/quartz/TracingJobListener.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/ExecutorInstrumentor.java

*

 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/messaging/MessageHeaderPropagatorSetter.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/SleuthAsyncSpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/HttpServerSampler.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/LazyTraceAsyncCustomizer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/scheduling/TraceSchedulingAspect.java

*

 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/reactor/ReactorHooksHelper.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/mvc/WebMvcRuntime.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/kafka/TracingKafkaPropagatorGetter.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/tomcat/TraceValve.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/kafka/TracingKafkaProducer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/TraceFeignBuilderBeanPostProcessor.java

*

/opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/tx/SleuthTxSpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/circuitbreaker/SleuthCircuitBreakerSpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/cassandra/SleuthCassandraSpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/mongodb/TraceAllTypesMongoClientSettingsBuilderCustomizer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/DataSourceProxyBuilderCustomizer.java

*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/TraceHandlerAdapter.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/mongodb/TraceMongoCommandListener.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/batch/SleuthBatchSpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/TraceExchangeFilterFunction.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/TraceJdbcEventListener.java

*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/LazyClient.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/DataSourceProxyProperties.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rsocket/ByteBufSetter.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/mongodb/TraceMongoSpanCustomizer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/messaging/TracingChannelInterceptor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/DataSourceWrapper.java

*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/TraceHikariListenerStrategySpanCustomizer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/session/SleuthSessionSpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/LazyTraceThreadPoolTaskExecutor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/kafka/TracingKafkaAspect.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rsocket/CompositeMetadataUtils.java

*

/opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/LazyTraceAsyncTaskExecutor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/TraceWebFilter.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/tx/TracePlatformTransactionManagerTags.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/servlet/package-info.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/mvc/package-info.java

*

 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/TraceAsyncAspect.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/SleuthJdbcSpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/kafka/TracingKafkaConsumer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/messaging/MessageHeaderPropagatorGetter.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/TraceFeignContext.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/DataSourceProxyDataSourceDecorator.java

*

 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/TraceType.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/kafka/TracingMessageListenerMethodInterceptor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/reactor/SpanSubscription.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/mvc/SleuthMvcSpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/P6SpyDataSourceDecorator.java

*

 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/internal/ContextUtil.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/mongodb/TraceMongoClientSettingsBuilderCustomizer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/config/SleuthConfigSpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/r2dbc/TraceProxyExecutionListener.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/servlet/HttpServletResponseWrapper.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/kafka/TracingKafkaProducerFactory.java

*

/opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/kafka/TracingKafkaConsumerFactory.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/mvc/TraceContextListenableFuture.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/TraceRequestHttpHeadersFilter.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/mongodb/TraceMongoSocketAddressSpanCustomizer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/messaging/DefaultMessageSpanCustomizer.java

*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/annotation/NonReactorSleuthMethodInvocationProcessor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/HttpClientSampler.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/kotlin/KotlinContextElement.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/TraceableExecutorService.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/DataSourceProxyConnectionIdManagerProvider.java

*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rsocket/TracingRequesterRSocketProxy.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/OkHttpFeignClientBeanPostProcessor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/mvc/TracingClientHttpRequestInterceptor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/internal/SleuthContextListener.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/LazyTracingFeignClient.java

*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rsocket/TracingRSocketServerCustomizer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/annotation/AbstractSleuthMethodInvocationProcessor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/P6SpyContextJdbcEventListenerFactory.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/TraceWebClientBeanPostProcessor.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/mongodb/TraceSynchronousMongoClientSettingsBuilderCustomizer.java

*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/TraceUserInfoRestTemplateCustomizer.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-

jar/org/springframework/cloud/sleuth/instrument/tx/TracePlatformTransactionManager.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/quartz/SleuthQuartzSpan.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/web/client/UserInfoRestTemplateCustomizerBeanPostProcessor.ja
va
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/messaging/MessagingSleuthOperators.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/web/mvc/HandlerParser.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/kafka/TracingKafkaPropagatorSetter.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/web/client/feign/TracingFeignClient.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/messaging/TraceFunctionAroundWrapper.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/web/mvc/SpanCustomizingAsyncHandlerInterceptor.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/jdbc/SpanNameProvider.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/web/client/LazyTraceClientHttpRequestInterceptor.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/messaging/TraceMessageHandler.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/web/servlet/HttpServletRequestWrapper.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/web/servlet/TracingFilter.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/async/TraceRunnable.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/kotlin/asContextElement.kt
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/annotation/SleuthAnnotationUtils.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/web/TraceHandlerFunction.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/kafka/KafkaTracingCallback.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/task/SleuthTaskSpan.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/web/TraceWebAspect.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-
jar/org/springframework/cloud/sleuth/instrument/reactor/ScopePassingSpanSubscriber.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/annotation/SleuthAnnotatedParameter.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rsocket/SleuthRSocketSpan.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/mvc/TracingAsyncClientHttpRequestInterceptor.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/messaging/TraceMessagingAspect.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/r2dbc/SleuthR2dbcSpan.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/LazyTraceThreadPoolTaskScheduler.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/TraceCallable.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/jdbc/TraceQueryExecutionListener.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/rxjava/SleuthRxJavaSchedulersHook.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/internal/DefaultSpanNamer.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/messaging/SleuthMessagingSpan.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/HttpServerRequestParser.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/HttpServerResponseParser.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/SleuthFeignBuilder.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/messaging/MessageSpanCustomizer.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/TraceFeignBlockingLoadBalancerClient.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/tx/TraceKafkaAwareTransactionManager.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/annotation/DefaultSpanCreator.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/mongodb/TraceRequestContext.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/async/TraceAsyncListenableTaskExecutor.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2018-2021 the original author or authors.
*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/cassandra/CassandraSpanCustomizer.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/batch/TraceJobBuilderFactory.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/circuitbreaker/TraceCircuitBreakerFactoryAspect.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/cassandra/TraceCqlSession.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/circuitbreaker/TraceReactiveCircuitBreakerFactoryAspect.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/session/TraceFindByIndexNameSessionRepository.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/batch/TraceJobExecutionListener.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/batch/TraceStepBuilderFactory.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/circuitbreaker/TraceReactiveCircuitBreaker.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/cassandra/TraceCqlSessionInterceptor.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/task/TraceTaskExecutionListener.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/task/TraceCommandLineRunner.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/cassandra/CassandraSpanSupplier.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/cassandra/TraceStatement.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/session/TraceSessionRepository.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-

jar/org/springframework/cloud/sleuth/instrument/cassandra/TraceRequestTracker.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/cassandra/TraceReactiveSession.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/circuitbreaker/TraceFunction.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/circuitbreaker/TraceCircuitBreaker.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/session/TraceReactiveSessionRepository.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/deployer/TraceAppDeployer.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/session/TraceSessionRepositoryAspect.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/task/TraceApplicationRunner.java
*
 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/circuitbreaker/TraceSupplier.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/cassandra/TraceCqlSessionBuilderCustomizer.java
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/batch/TraceStepExecutionListener.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013-2023 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/reactor/ReactorSleuth.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021-2021 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/prometheus/SleuthSpanContextSupplier.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/security/TracingSecurityContextChangedListener.java

*

 /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/security/SleuthSecuritySpan.java

* /opt/cola/permits/1612247633_1679586948.3598535/0/spring-cloud-sleuth-instrumentation-3-1-7-sources-jar/org/springframework/cloud/sleuth/instrument/prometheus/LazySleuthSpanContextSupplier.java

1.193 spring-cloud-loadbalancer 3.1.6

1.193.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2012-2020 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/stats/MicrometerStatsLoadBalancerLifecycle.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/RandomLoadBalancer.java
*
 /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/ZonePreferenceServiceInstanceListSupplier.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/annotation/LoadBalancerClientConfigurationRegistrar.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/SameInstancePreferenceServiceInstanceListSupplier.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/blocking/retry/BlockingLoadBalancedRetryPolicy.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/annotation/LoadBalancerClientSpecification.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/support/SimpleObjectProvider.java
*
 /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/annotation/LoadBalancerClient.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/config/LoadBalancerZoneConfig.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/cache/CaffeineBasedLoadBalancerCacheManager.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/SelectedInstanceCallback.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/ReactorServiceInstanceLoadBalancer.java
*
 /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/RequestBasedStickySessionServiceInstanceListSupplier.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/support/LoadBalancerClientFactory.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/cache/DefaultLoadBalancerCache.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/stats/LoadBalancerTags.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/cache/DefaultLoadBalancerCacheManager.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/XForwardedHeadersTransformer.java
*
 /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/blocking/retry/BlockingLoadBalancedRetryFactory.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/cache/LoadBalancerCacheProperties.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/ReactorLoadBalancer.java

* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/support/ServiceInstanceListSuppliers.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/config/LoadBalancerCacheAutoConfiguration.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/NoopServiceInstanceListSupplier.java
*
 /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/support/LoadBalancerEnvironmentPropertyUtils.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/cache/LoadBalancerCacheManager.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/DiscoveryClientServiceInstanceListSupplier.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/ServiceInstanceListSupplier.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/RoundRobinLoadBalancer.java
*
 /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/CachingServiceInstanceListSupplier.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/config/LoadBalancerAutoConfiguration.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/blocking/client/BlockingLoadBalancerClient.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/config/LoadBalancerStatsAutoConfiguration.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/annotation/LoadBalancerClients.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015-2015 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-

jar/org/springframework/cloud/loadbalancer/security/OAuth2LoadBalancerClientAutoConfiguration.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012-2021 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/core/RetryAwareServiceInstanceListSupplier.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/core/HintBasedServiceInstanceListSupplier.java
*
 /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/core/LoadBalancerServiceInstanceCookieTransformer.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/config/BlockingLoadBalancerClientAutoConfiguration.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/core/HealthCheckServiceInstanceListSupplier.java
* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-
jar/org/springframework/cloud/loadbalancer/blocking/XForwardedHeadersTransformer.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013-2020 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/ServiceInstanceListSupplierBuilder.java

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-loadbalancer/pom.xml

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2012-2019 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/core/DelegatingServiceInstanceListSupplier.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2012-2023 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612248566_1679586979.445726/0/spring-cloud-loadbalancer-3-1-6-sources-jar/org/springframework/cloud/loadbalancer/annotation/LoadBalancerClientConfiguration.java

1.194 spring-cloud-starter-bootstrap 3.1.6

1.194.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2013-2020 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612248605_1679586993.081428/0/spring-cloud-starter-bootstrap-3-1-6-sources-jar/org/springframework/cloud/bootstrap/marker/Marker.java

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

* /opt/cola/permits/1612248605_1679586993.081428/0/spring-cloud-starter-bootstrap-3-1-6-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-bootstrap/pom.xml

1.195 feign-gson 11.10

1.195.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bundle-Description: Feign Gson

Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt

Bundle-SymbolicName: io.github.openfeign.feign-gson

Bnd-LastModified: 1663794456329

Bundle-ManifestVersion: 2

Bundle-DocURL: https://github.com/openfeign

Bundle-Vendor: OpenFeign

Import-Package: com.google.gson;version="[2.9,3)",com.google.gson.refl
ect;version="[2.9,3)",com.google.gson.stream;version="[2.9,3)",feign;
version="[11.10,12)",feign.codec;version="[11.10,12)"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-6.3.1.202206071316

Export-Package: feign.gson;uses:="com.google.gson,com.google.gson.stre
am,feign,feign.codec";version="11.10.0"

Bundle-Name: Feign Gson

Bundle-Version: 11.10.0

Build-Jdk-Spec: 1.8

Created-By: Apache Maven Bundle Plugin 5.1.8

Found in path(s):

* /opt/cola/permits/1612248651_1679586986.3184857/0/feign-gson-11-10-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

<!--

  Copyright 2012-2022 The Feign Authors

  Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except
  in compliance with the License. You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software distributed under the License
  is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
  or implied. See the License for the specific language governing permissions and limitations under
  the License.

-->

Found in path(s):

* /opt/cola/permits/1612248651_1679586986.3184857/0/feign-gson-11-10-jar/META-INF/maven/io.github.openfeign/feign-gson/pom.xml

1.196 spring-cloud-netflix-eureka-client 3.1.5

1.196.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2019-2022 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/reactive/EurekaReactiveDiscoveryClientConfiguration.java

* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/reactive/EurekaReactiveDiscoveryClient.java

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):

* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-netflix-eureka-client/pom.xml

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2012-2022 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

Found in path(s):

* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/loadbalancer/EurekaLoadBalancerProperties.java

No license file was found, but licenses were detected in source scan.

Found in path(s):

* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/EurekaClientAutoConfiguration.java

* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/RestTemplateTimeoutProperties.java

*

 /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/serviceregistry/EurekaAutoServiceRegistration.java

* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/http/EurekaClientHttpRequestFactorySupplier.java

* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/config/EurekaConfigServerBootstrapConfiguration.java

* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/CloudEurekaInstanceConfig.java

* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-

jar/org/springframework/cloud/netflix/eureka/support/ZoneUtils.java
*
 /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/EurekaConstants.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/EurekaHealthCheckHandler.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/EurekaHealthIndicator.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/EurekaInstanceConfigBean.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/CloudEurekaTransportConfig.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/config/EurekaClientConfigServerAutoConfiguration.java
*
 /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/config/HostnameBasedUrlRandomizer.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/serviceregistry/EurekaServiceRegistry.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/EurekaDiscoveryClientConfiguration.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/EnableEurekaClient.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/config/EurekaConfigServerInstanceProvider.java
*
 /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/CloudEurekaClient.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/EurekaClientConfigBean.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/InstanceInfoFactory.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/loadbalancer/LoadBalancerEurekaAutoConfiguration.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/serviceregistry/EurekaRegistration.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/EurekaDiscoveryClient.java
*
 /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/http/DefaultEurekaClientHttpRequestFactorySupplier.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/loadbalancer/EurekaLoadBalancerClientConfiguration.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/MutableDiscoveryClientOptionalArgs.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-
jar/org/springframework/cloud/netflix/eureka/config/EurekaConfigServerBootstrapper.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-

jar/org/springframework/cloud/netflix/eureka/EurekaServiceInstance.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017-2022 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/http/WebClientTransportClientFactory.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/config/DiscoveryClientOptionalArgsConfiguration.java
*
 /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/metadata/ManagementMetadataProvider.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/http/WebClientDiscoveryClientOptionalArgs.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/config/EurekaTlsProperties.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/http/RestTemplateTransportClientFactory.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/http/RestTemplateTransportClientFactories.java
*
 /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/http/RestTemplateDiscoveryClientOptionalArgs.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/http/WebClientEurekaHttpClient.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/http/EurekaApplications.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/metadata/ManagementMetadata.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/metadata/DefaultManagementMetadataProvider.java
* /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/http/WebClientTransportClientFactories.java

*

 /opt/cola/permits/1612248597_1679586998.2992833/0/spring-cloud-netflix-eureka-client-3-1-5-sources-jar/org/springframework/cloud/netflix/eureka/http/RestTemplateEurekaHttpClient.java

1.197 spring-cloud-config-client 3.1.6

1.197.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2012-2017 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/environment/EnvironmentMediaType.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2014-2019 the original author or authors.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/RetryTemplateFactory.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/RetryProperties.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015-2021 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServerConfigDataMissingEnvironmentPostProcessor.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013-2020 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServerConfigDataLocationResolver.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServerConfigDataResource.java

*

 /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServerConfigDataLoader.java

* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServerBootstrapper.java

* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServerInstanceMonitor.java

* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigClientRetryBootstrapper.java

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/META-INF/maven/org.springframework.cloud/spring-cloud-config-client/pom.xml

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2018-2019 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServerHealthIndicator.java

* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServerInstanceProvider.java
*

 /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigClientStateHolder.java

No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigClientRequestTemplateFactory.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigClientFailFastException.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigClientHealthProperties.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/diagnostics/analyzer/InvalidApplicationNameExceptionFailureAnalyzer.java
*
 /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServicePropertySourceLocator.java

* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/validation/InvalidApplicationNameException.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/environment/Environment.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/environment/PropertyValueDescriptor.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigClientProperties.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/environment/PropertySource.java
*
 /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigClientWatch.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/DiscoveryClientConfigServiceBootstrapConfiguration.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigClientAutoConfiguration.java
* /opt/cola/permits/1612248574_1679586974.7239923/0/spring-cloud-config-client-3-1-6-sources-jar/org/springframework/cloud/config/client/ConfigServiceBootstrapConfiguration.java

1.198 spring-cloud-config-server 3.1.6

1.198.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1612280032_1679588342.6157959/0/spring-cloud-config-server-3-1-6-jar/META-INF/maven/org.springframework.cloud/spring-cloud-config-server/pom.xml

1.199 eclipse-jgit 5.13.1.202206130422-r

1.199.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, Stefan Lay <stefan.lay@.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.

```
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/PatchIdDiffFormatter.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/NullOutputStream.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2012, Research In Motion Limited
* Copyright (C) 2012, Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/RecursiveMerger.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2010, 2014, Stefan Lay <stefan.lay@sap.com>
* Copyright (C) 2016, 2021 Laurent Delaigue <laurent.delaigue@obeo.fr> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/MergeCommand.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com> and others
*
```

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/patch/BinaryHunk.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2010, Mathias Kinzler <mathias.kinzler@sap.com>

* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>

* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>

* Copyright (C) 2008-2012, Google Inc.

* Copyright (C) 2009, JetBrains s.r.o.

* Copyright (C) 2007-2008, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org>

* Copyright (C) 2008, Thad Hughes <thadh@thad.corp.google.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/ConfigSnapshot.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2012, Research In Motion Limited and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/StrategyRecursive.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Mathias Kinzler <mathias.kinzler@sap.com>
* Copyright (C) 2010, Chris Aniszczyk <caniszczyk@gmail.com>
* Copyright (C) 2014, Robin Stocker <robin@nibor.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/ListBranchCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2009, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/LongList.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2018, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/revplot/PlotWalk.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2012, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2011, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/GC.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2008, Jonas Fonseca <fonseca@diku.dk>
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2007, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/MissingObjectException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/IncorrectObjectTypeException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2018, Salesforce and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
* distribution, is reproduced below, and is available at
* http://www.eclipse.org/org/documents/edl-v10.php
*
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/errors/UnsupportedSigningFormatException.java
No license file was found, but licenses were detected in source scan.

*

* - Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

*

* - Redistributions in binary form must reproduce the above

*   copyright notice, this list of conditions and the following

*   disclaimer in the documentation and/or other materials provided

*   with the distribution.

*

* - Neither the name of the Eclipse Foundation, Inc. nor the

*   names of its contributors

 may be used to endorse or promote

*   products derived from this software without specific prior

*   written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND

* CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,

* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR

* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT

* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;

* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER

* CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,

* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF

* ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PostUploadHook.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/storage/pack/PackStatistics.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PostUploadHookChain.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011-2013, Robin Rosenberg <robin.rosenberg@dewire.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/CheckoutEntryImpl.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/ReflogEntry.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, Chris Aniszczyk <caniszczyk@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/AddNoteCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/ListNotesCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/ReflogCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/ShowNoteCommand.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/RemoveNoteCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018, 2020 Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/SshConstants.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2009, Yann Simon <yann.simon.fr@gmail.com>
* Copyright (C) 2011, Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/UserConfig.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013 Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/http/HttpConnectionFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2009, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, 2021, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/RevTag.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2009, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/AbbreviatedObjectId.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/DaemonClient.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/patch/FileHeader.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/UnmergedPathException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/StrategySimpleTwoWayInCore.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/patch/Patch.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/patch/HunkHeader.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/Daemon.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2021 Qualcomm Innovation Center, Inc.
* and other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackFile.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, 2013 Mathias Kinzler <mathias.kinzler@sap.com>
* Copyright (C) 2016, 2021 Laurent Delaigue <laurent.delaigue@obeo.fr> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/RebaseCommand.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>,
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2014, Konrad Kügler and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revplot/PlotCommitList.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2012, IBM Corporation and others. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/errors/PatchFormatException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/errors/PatchApplyException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/SquashMessageFormatter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/InflaterCache.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011-2012, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/ServiceMayNotContinueException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2009, Google, Inc.
* Copyright (C) 2009, JetBrains s.r.o.
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/RemoteSession.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, GitHub Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/submodule/SubmoduleStatusType.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/SubmoduleStatusCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/LockFailedException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/SubmoduleSyncCommand.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/submodule/SubmoduleWalk.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/StashListCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/TransportCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/SubmoduleAddCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/submodule/SubmoduleStatus.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/SubmoduleInitCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.

```
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/StopWalkException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/PendingGenerator.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/RawSubStringPattern.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/filter/PatternMatchRevFilter.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/BoundaryGenerator.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/LIFORevQueue.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/DelayRevQueue.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/CachedAuthenticator.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/FixUninterestingGenerator.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/FS_Win32.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2018, Google LLC. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/ProtocolV2Parser.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/ProtocolV0Parser.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/LsRefsV2Request.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/FetchV2Request.java
*

/opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/CapabilitiesV2Request.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/parser/FirstWant.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/parser/FirstCommand.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/FetchV0Request.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/submodule/SubmoduleValidator.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/ProtocolV2Hook.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/GitmoduleEntry.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/FetchRequest.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013, 2020 Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/http/JDKHttpConnectionFactory.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/http/JDKHttpConnection.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013, Gunnar Wagenknecht
* Copyright (C) 2010, Chris Aniszczyk <caniszczyk@gmail.com>
* Copyright (C) 2009, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/CoreConfig.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008, Google Inc. and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PreReceiveHook.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/patch/CombinedFileHeader.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/NameConflictTreeWalk.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PostReceiveHook.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/patch/CombinedHunkHeader.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/patch/FormatError.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/ReceiveCommand.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011, Ketan Padegaonkar <ketanpadegaonkar@gmail.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/api/ListTagCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014, Arthur Daussy <arthur.daussy@obeo.fr> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/attributes/AttributesNodeProvider.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, 2012 IBM Corporation and others. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/ApplyResult.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/NoRemoteRepositoryException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/RevCommitList.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/RevFlagSet.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/TreeFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/FS_Win32_Cygwin.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/WalkEncryption.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/MessageRevFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/WalkPushConnection.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revplot/PlotLane.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/CommitterRevFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/DeltaBaseCache.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/EndGenerator.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/BlockObjQueue.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/AuthorRevFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/RevObject.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/Generator.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/BlockRevQueue.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/SubStringRevFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/FIFORevQueue.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/ObjectWalk.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/NotRevFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/AmazonS3.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/RevFlagFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackIndexV2.java

*

/opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/WalkRemoteObjectDatabase.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/CompoundException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/RevFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/RevFlag.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/TreeRevFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/TransportAmazonS3.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/TopoSortGenerator.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/TransportSftp.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/RawCharSequence.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackIndexWriterV2.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/MergeBaseGenerator.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/AbstractRevQueue.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/RewriteGenerator.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/MutableInteger.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2010, 2021 Google Inc. and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/UsernamePasswordCredentialsProvider.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>

* Copyright (C) 2008-2010, Google Inc.

* Copyright (C) 2008-2009, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2009, Sasa Zivkov <sasa.zivkov@sap.com>

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/BundleFetchConnection.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, Mykola Nikishov <mn@mn.com.ua>

* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>

* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>

* Copyright (C) 2013, Robin Stocker <robin@nibor.org>

* Copyright (C) 2015, Patrick Steinhardt <ps@pks.im> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/URIish.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008-2009, Google Inc.

* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/Pack.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/ByteBufferWindow.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/ByteArrayWindow.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012, Matthias Sohn <matthias.sohn@sap.com> and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
* distribution, is reproduced below, and is available at
* http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
* - Redistributions of source code must retain the above copyright notice, this
* list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above copyright notice,
* this list of conditions and the following disclaimer in the documentation
* and/or other materials provided with the distribution.
*
 * - Neither the name of the Eclipse Foundation, Inc. nor the names of its
* contributors may be used to endorse or promote products derived from this
* software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found

 in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/TransportException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2020, Google LLC and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* http://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/BitmapCommit.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/RevertCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/LogCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/MultipleParentsNotAllowedException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/IndexDiffFilter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2009, Robin Rosenberg <robin.rosenberg@dewire.com> and others
*
* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/merge/StrategyOneSided.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/DaemonService.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2021 Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/io/BinaryDeltaInputStream.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/io/BinaryHunkInputStream.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/Base85.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/io/BinaryHunkOutputStream.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013, Robin Rosenberg <robin.rosenberg@dewire.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/treewalk/filter/InterIndexDiffFilter.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/lib/ReflogReader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/TransportBundleStream.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/TransportBundleFile.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013, 2017 Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/http/HttpConnection.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014, Arthur Daussy <arthur.daussy@obeo.fr>
* Copyright (C) 2015, Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/GlobalAttributesNode.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/InfoAttributesNode.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2008-2010, Google Inc.
 * Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com> and others
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0 which is available at
 * https://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */
```

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/ObjectToPack.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/PackWriter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/storage/pack/PackConfig.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2010, Mathias Kinzler <mathias.kinzler@sap.com>
 * Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>
 * Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>
 * Copyright (C) 2008-2010, Google Inc.
 * Copyright (C) 2009, Google, Inc.
 * Copyright (C) 2009, JetBrains s.r.o.
 * Copyright (C) 2007-2008, Robin Rosenberg <robin.rosenberg@dewire.com>
 * Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org>
 * Copyright (C) 2008, Thad Hughes <thadh@thad.corp.google.com> and others
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0 which is available at
 * https://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */
```

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/lib/ConfigLine.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/Config.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>

* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>

* Copyright (C) 2009, Google Inc.

* Copyright (C) 2009, JetBrains s.r.o.

* Copyright (C) 2008-2009, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>

* Copyright (C) 2008, Thad Hughes <thadh@thad.corp.google.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/storage/file/FileBasedConfig.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/FS.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2007 The Guava Authors

* Copyright (C) 2014, Sasa Zivkov <sasa.zivkov@sap.com>, SAP AG and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/io/LimitedInputStream.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2010, 2013, Google Inc. and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/HttpAuthMethod.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008, Charles O'Farrell <charleso@charleso.org>

* Copyright (C) 2009, Robin Rosenberg <robin.rosenberg@gmail.com>

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/FetchHeadRecord.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>

* Copyright (C) 2009, Google Inc.

* Copyright (C) 2009, JetBrains s.r.o. and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/BlobBasedConfig.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2006, 2008, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>

* Copyright (C) 2010, 2020, Chris Aniszczyk <caniszczyk@gmail.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/TagBuilder.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008, 2009 Google Inc.

* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/WindowCache.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/SshSessionFactory.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/FetchProcess.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, 2020 Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/ContentSource.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, 2017 Chris Aniszczyk <caniszczyk@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/CloneCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2009, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PackedObjectInfo.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2010, Google Inc.

* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/Connection.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2015, Google Inc. and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PushCertificateStore.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/DirCacheNameConflictException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PushCertificateIdent.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/ObjectIdSet.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/gitrepo/RepoProject.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/gitrepo/ManifestParser.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/InternalPushConnection.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/LazyObjectIdSetFile.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/UserAgent.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/WriteAbortedException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/ProgressSpinner.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/HMACSHA1NonceGenerator.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/SignedPushConfig.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PushCertificateParser.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/ObjectCountCallback.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/annotations/Nullable.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PushCertificate.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/NonceGenerator.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/InternalFetchConnection.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/TestProtocol.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/InternalHttpServerGlue.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2012, Google Inc. and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/BitmapIndex.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/BitmapIndexImpl.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/InflatingBitSet.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/SimpleDataInput.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackBitmapIndexBuilder.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/BeforeDfsPackIndexLoadedEvent.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/BitmapObject.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/PackWriterBitmapPreparer.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackBitmapIndex.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackBitmapIndexV1.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/BasePackBitmapIndex.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/BeforeDfsPackIndexLoadedListener.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/BitmapWalker.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/BitSet.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/RequestNotYetReadException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackBitmapIndexWriterV1.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/AdvertiseRefsHookChain.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/SimpleDataOutput.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, Chris Aniszczyk <caniszczyk@gmail.com>
* Copyright (C) 2009, Robin Rosenberg <robin.rosenberg@dewire.com> and others
*
* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/ReflogEntryImpl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackIndex.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/BasePackPushConnection.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PushConnection.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/RevSort.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, 2021 Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/CherryPickCommand.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/RepositoryCacheConfig.java
No license file was found, but licenses were detected in source scan.

```
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/
```

Found
 in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/InvalidRebaseStepException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/TransportException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/PackProtocolException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2011, Sasa Zivkov <sasa.zivkov@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/TooLargeObjectInPackException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008, Florian Köberle <florianskarten@web.de>
```

* Copyright (C) 2009, Vasyl' Vavrychuk <vvavrychuk@gmail.com>
* Copyright (C) 2009, Yann Simon <yann.simon.fr@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/NoClosingBracketException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>,
* Copyright (C) 2010-2012, Matthias Sohn <matthias.sohn@sap.com>
* Copyright (C) 2012, Research In Motion Limited
* Copyright (C) 2017, Obeo (mathieu.cartaud@obeo.fr)
* Copyright (C) 2018, Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/merge/ResolveMerger.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Robin Rosenberg <robin.rosenberg@dewire.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/ReflogReaderImpl.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/PackIndexWriter.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/WalkFetchConnection.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/SideBandInputStream.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/PackIndexWriterV1.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/BaseFetchConnection.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Sasa Zivkov <sasa.zivkov@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*

* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/nls/TranslationBundle.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/nls/GlobalBundleCache.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/notes/NotesMergeConflictException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/notes/DefaultNoteMerger.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/TranslationBundleLoadingException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/nls/NLS.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/TranslationStringMissingException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/notes/NoteMapMerger.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/TranslationBundleException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/notes/NoteMerger.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/PackOutputStream.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020 Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/GpgObjectSigner.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/http/HttpConnectionFactory2.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2007-2010, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2009, Tor Arne Vestbø <torarnv@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/treewalk/FileTreeIterator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015, 2020 Ivan Motsch <ivan.motsch@bsiag.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/io/EolStreamTypeUtil.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Florian Köberle <florianskarten@web.de>
* Copyright (C) 2009, Vasyl' Vavrychuk <vvavrychuk@gmail.com> and others

*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/InvalidPatternException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012, GitHub Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/StashCreateCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/StashDropCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>
* Copyright (C) 2009, JetBrains s.r.o.
* Copyright (C) 2009, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/HttpTransport.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/TcpTransport.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, Chris Aniszczyk <caniszczyk@gmail.com>
* Copyright (C) 2011, 2020 Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/CheckoutCommand.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2016, Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/CommandFailedException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/attributes/FilterCommandRegistry.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2007-2009, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/PackIndexV1.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/MutableObjectId.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Jonas Fonseca <fonseca@diku.dk>
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/InvalidObjectIdException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, 2012 Chris Aniszczyk <caniszczyk@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/RmCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/MergeResult.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/MergeFormatter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/MergeAlgorithm.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2007-2009, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/OperationResult.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010-2012, Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/CommitCommand.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2017, Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
```

* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/DefaultTypedConfigGetter.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/events/WorkingTreeModifiedEvent.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/events/WorkingTreeModifiedListener.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2009, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/ObjectDirectoryInserter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/StatusCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2019, Google Inc. and others

*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/reftable/ReftableBatchRefUpdate.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/dfs/DfsReftableBatchRefUpdate.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2010, 2021 Chris Aniszczyk <caniszczyk@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
/**
 * {@inheritDoc}
 * <p>
 * Free resources associated with this instance.
 * <p>
 * If the repository was opened by a static factory method in this class,
 * then this method calls {@link Repository#close()} on the underlying
 * repository instance. (Whether this actually releases underlying
 * resources, such as file handles, may vary; see {@link Repository} for
 * more details.)
 * <p>
 * If the repository was created by a caller and passed into
 * {@link #Git(Repository)} or a static factory method
 in this class, then
 * this method does not call close on the underlying repository.
 * <p>
 * In all cases, after calling this method you should not use this
 * {@link Git} instance anymore.
 *
 * @since 3.2
 */

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/Git.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2009, JetBrains s.r.o.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008-2009, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/SshTransport.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2008, Jonas Fonseca <fonseca@diku.dk>
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2007, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/CorruptObjectException.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at

```
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/StartGenerator.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008, 2010, Google Inc.
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2011, 2020, Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/dircache/DirCache.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008-2010, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/ReceivePack.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/SideBandProgressMonitor.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/SideBandOutputStream.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/BundleWriter.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>
* Copyright (C) 2009, JetBrains s.r.o.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PackTransport.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008, 2009 Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/Transport.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, Chrisian Halstrick <christian.halstrick@sap.com> and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
* distribution, is reproduced below, and is available at
* http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
```

* modification, are permitted provided that the following conditions are met:
*
* - Redistributions of source code must retain the above copyright notice, this
* list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above copyright notice,
* this list of conditions and the following disclaimer in the documentation
* and/or other materials provided with the distribution.
 *
* - Neither the name of the Eclipse Foundation, Inc. nor the names of its
* contributors may be used to endorse or promote products derived from this
* software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH
 DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/IndexWriteException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015, Christian Halstrick <christian.halstrick@sap.com>
* and other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
* distribution, is reproduced below, and is available at
* http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
* - Redistributions of source code must retain the above copyright notice, this
* list of conditions and the following disclaimer.

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/EmptyCommitException.java

No license file was found, but licenses were detected in source scan.

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/BranchConfig.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/BranchTrackingStatus.java

No license file was found, but licenses were detected in source scan.

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/gitrepo/internal/RepoText.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/gitrepo/RepoCommand.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2013, Google Inc. and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/NameRevCommand.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackBitmapIndexRemapper.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/PackExt.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, Google Inc.

* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>

* Copyright (C) 2013, Robin Rosenberg and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/ByteArraySet.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/FetchResult.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>,
* Copyright (C) 2013, Gustaf Lundh <gustaf.lundh@sonymobile.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/DateRevQueue.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, 2017 Red Hat Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/attributes/AttributesRule.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 Laurent Goujon <lgoujon@twitter.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/GSSManagerFactory.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Roger C. Soares <rogersoares@intelinet.com.br>
* Copyright (C) 2006, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2010, Chrisian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2019-2020, Andre Bossert <andre.bossert@siemens.com>
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/dircache/DirCacheCheckout.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2010, Google Inc.
* Copyright (C) 2017, Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/HttpConfig.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2015, Christian Halstrick <christian.halstrick@sap.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/attributes/AttributesProvider.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>

* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/TransportGitAnon.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, Google Inc.

* Copyright (C) 2009, Jonas Fonseca <fonseca@diku.dk>

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

```
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/RevObjectList.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2019, Marc Strapetz <marc.strapetz@syntevo.com>
* Copyright (C) 2019, Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/SimpleLruCache.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2011, 2013 Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/Status.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009, 2013 Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
```

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/TimeoutInputStream.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/TimeoutOutputStream.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/UnionInputStream.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2012, Google Inc.
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/BatchRefUpdate.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2010, Stefan Lay <stefan.lay@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/AddCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2007, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/SymlinksNotSupportedException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/ObjectWritingException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/EntryExistsException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/BinaryDelta.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015, Andrey Loskutov <loskutov@gmx.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/annotations/NonNull.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/RawParseUtils.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/WindowCursor.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017, Two Sigma Open Source
* and other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available
* under the terms of the Eclipse Distribution License v1.0 which
* accompanies this distribution, is reproduced below, and is
* available at http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or
* without modification, are permitted provided that the following
* conditions are met:
*
* - Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above
*   copyright notice, this list of conditions and the following
*   disclaimer in the documentation and/or other materials provided
*   with the distribution.
*
*
 - Neither the name of the Eclipse Foundation, Inc. nor the
*   names of its contributors may be used to endorse or promote
*   products derived from this software without specific prior
*   written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
* CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
* CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
* ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/submodule/SubmoduleConflict.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Constantine Plotnikov <constantine.plotnikov@gmail.com>
* Copyright (C) 2010, JetBrains s.r.o. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/CachedObjectDirectory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 Obeo. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/ProcessResult.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020, Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/SshConfigStore.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/RemoteSession2.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/ObjectBuilder.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2014, Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/ChainingCredentialsProvider.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2018, David Pursehouse <david.pursehouse@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/storage/file/WindowCacheStats.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/SilentFileInputStream.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2015, Ivan Motsch <ivan.motsch@bsiag.com>
* Copyright (C) 2020, Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/AutoLFOutputStream.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Mike Ralphson <mike@abacus.co.uk>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
/**
 * Fetch objects we don't have but that are reachable from advertised refs.
 * <p>
 * Only one call per connection is allowed. Subsequent calls will result in
 * {@link org.eclipse.jgit.errors.TransportException}.
 * </p>
 * <p>
 * Implementations are free to use network connections as necessary to
 * efficiently (for both client and server) transfer objects from the remote
 * repository into this repository. When possible
implementations should
 * avoid replacing/overwriting/duplicating an object already available in
 * the local destination repository. Locally available objects and packs
 * should always be preferred over remotely available objects and packs.
 * {@link org.eclipse.jgit.transport.Transport#isFetchThin()} should be
 * honored if applicable.
 * </p>
 *
 * @param monitor
 *            progress monitor to inform the end-user about the amount of
 *            work completed, or to indicate cancellation. Implementations
 *            should poll the monitor at regular intervals to look for
 *            cancellation requests from the user.
 * @param want
 *            one or more refs advertised by this connection that the caller
 *            wants to store locally.
 * @param have
 *            additional objects known to exist in the destination
 *            repository, especially if they aren't yet reachable by the ref
 *            database. Connections should take this
```

set as an addition to
*   what is reachable through all Refs, not in replace of it.
* @throws org.eclipse.jgit.errors.TransportException
*   objects could not be copied due to a network failure,
*   protocol error, or error on remote side, or connection was
*   already used for fetch.
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/FetchConnection.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020, Google LLC and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/revwalk/PedestrianObjectReachabilityChecker.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/ObjectReachabilityChecker.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/revwalk/BitmappedObjectReachabilityChecker.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2022, Workday Inc.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/AwsRequestSignerV4.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011-2013, Chris Aniszczyk <caniszczyk@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/ResetCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, Philipp Thun <philipp.thun@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/CherryPickResult.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2008, Jonas Fonseca <fonseca@diku.dk>
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/ObjectLoader.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2009, Google Inc.
 * Copyright (C) 2008-2021, Johannes E. Schindelin <johannes.schindelin@gmx.de> and others
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0 which is available at
 * https://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/diff/RawText.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
 * Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>
 * Copyright (C) 2014, Gustaf Lundh <gustaf.lundh@sonymobile.com> and others
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0 which is available at
 * https://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/RevWalk.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright (C) 2010, Mathias Kinzler <mathias.kinzler@sap.com>
 * Copyright (C) 2010, Chris Aniszczyk <caniszczyk@gmail.com> and others
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Distribution License v. 1.0 which is available at
 * https://www.eclipse.org/org/documents/edl-v10.php.
 *
 * SPDX-License-Identifier: BSD-3-Clause
 */
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/RenameBranchCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/api/DeleteBranchCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/CreateBranchCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2010, Chris Aniszczyk <caniszczyk@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/ObjectInserter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2010, Mathias Kinzler <mathias.kinzler@sap.com>
* Copyright (C) 2016, 2021 Laurent Delaigue <laurent.delaigue@obeo.fr> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/PullCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2021, Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/VerificationResult.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/WrongObjectTypeException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/VerifySignatureCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/GpgSignatureVerifierFactory.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/SignatureUtils.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/GpgSignatureVerifier.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/ContentMergeStrategy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, 2020 Christoph Brill <egore911@egore911.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/LsRemoteCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/RelativeDateFormatter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, 2012 Google Inc. and others. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/dfs/DfsOutputStream.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2011, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/BatchingProgressMonitor.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/TransportBundle.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2017, Google Inc.
* Copyright (C) 2017, 2021, Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/transport/ssh/OpenSshConfigFile.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014, Sasa Zivkov <sasa.zivkov@sap.com>, SAP AG and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/TooLargePackException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com> and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
* distribution, is reproduced below, and is available at
* http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
* - Redistributions of source code must retain the above copyright notice, this

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/GitCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/GitAPIException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/JGitInternalException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/ConcurrentRefUpdateException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/CheckoutConflictException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/NoHeadException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/InvalidMergeHeadsException.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/WrongRepositoryStateException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/NoMessageException.java
No license file was found, but licenses were detected in source scan.

*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/errors/RefAlreadyExistsException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 Obeo. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/hooks/Hooks.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/hooks/PostCommitHook.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/errors/AbortedByHookException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/hooks/CommitMsgHook.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/hooks/GitHook.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/hooks/PreCommitHook.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/hooks/PrePushHook.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Alex Blewitt <alex.blewitt@gmail.com>
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/NullProgressMonitor.java
No license file was found, but licenses were detected in source scan.

// iHarder.net public domain Base64 library. See the original at
/**
* Encodes and decodes to and from Base64 notation.
* <p>
* I am placing this code in the Public Domain. Do with it as you will. This
* software comes with no guarantees or warranties but with plenty of
* well-wishing instead! Please visit
* http://iharder.net/base64
* periodically to check for updates or to contribute improvements.
* </p>
*
* @author Robert Harder
* @author rob@iharder.net
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/Base64.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2020 Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/RefAdvertiser.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/UploadPack.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/TransferConfig.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Mike Ralphson <mike@abacus.co.uk>
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg.lists@dewire.com>
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/RepositoryState.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2011, Google Inc.
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsBlockCache.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2021, Google LLC. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/transport/ObjectInfoRequest.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, 2012 Robin Rosenberg and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/GitDateFormatter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018, 2021 Salesforce and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/GpgConfig.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2013 Google Inc.
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/GitProtocolConstants.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Google Inc.
* Copyright (C) 2010, Matthias Sohn <matthias.sohn@sap.com>
* Copyright (C) 2010, Jens Baumgart <jens.baumgart@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/FileUtils.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016, 2020 JGit contributors
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*
* Contributors:
*   Saša Živkov 2016 - initial API
*   Thomas Wolf 2020 - extracted from HttpSupport
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/http/NoCheckX509TrustManager.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2017, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/Constants.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/ReadableChannel.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsReaderOptions.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PreReceiveHookChain.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsBlockCacheConfig.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/IntSet.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PreUploadHook.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsCachedPack.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PostReceiveHookChain.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsRefUpdate.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsGarbageCollector.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DeltaBaseCache.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsText.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/UploadPackInternalServerErrorException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/CachedPack.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/BaseSearch.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/blame/ReverseWalk.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsRepositoryBuilder.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/CountingOutputStream.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsPacksChangedListener.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/TransportProtocol.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsRepositoryDescription.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsRefDatabase.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/BlockList.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PreUploadHookChain.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/ObjectIdOwnerMap.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/LocalCachedPack.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsConfig.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsInserter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsPackCompactor.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/blame/BlameResult.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsObjectRepresentation.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsObjDatabase.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsObjectToPack.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/blame/Region.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsPackParser.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsRepository.java

*

/opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsRefRename.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsStreamKey.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsPacksChangedEvent.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018, Salesforce. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/GpgSigner.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/GpgSignature.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2019, Google LLC. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/CachedPackUriProvider.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/revwalk/PedestrianReachabilityChecker.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/FilterSpec.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/ReachabilityChecker.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/ProtocolV2HookChain.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2010, Mathias Kinzler <mathias.kinzler@sap.com>
* and other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
* distribution, is reproduced below, and is available at
* http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
* - Redistributions of source code must retain the above copyright notice, this
* list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above copyright notice,
* this list of conditions and the following disclaimer in the
 documentation
* and/or other materials provided with the distribution.
*
* - Neither the name of the Eclipse Foundation, Inc. nor the names of its
* contributors may be used to endorse or promote products derived from this
* software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE
 OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/errors/InvalidConfigurationException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/errors/DetachedHeadException.java

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/CanceledException.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Marc Strapetz <marc.strapetz@syntevo.com>
* Copyright (C) 2012-2013, Robin Rosenberg and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/WorkingTreeOptions.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/events/RefsChangedListener.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/events/ConfigChangedListener.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/events/IndexChangedListener.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013, CloudBees, Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/DescribeCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Stefan Lay <stefan.lay@sap.com>
* Copyright (C) 2010-2012, Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/MergeResult.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, 2013 Sasa Zivkov <sasa.zivkov@sap.com>
* Copyright (C) 2012, 2021 Research In Motion Limited and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/JGitText.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/PushProcess.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/RemoteRefUpdate.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/PackReverseIndex.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2019, Google LLC and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/reftable/ReftableReflogReader.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/revwalk/BitmappedReachabilityChecker.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2020 Thomas Wolf <thomas.wolf@paranor.ch>
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/transport/http/DelegatingSSLSocketFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>,
* Copyright (C) 2010, Stefan Lay <stefan.lay@sap.com> and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/errors/NoFilepatternException.java
No license file was found, but licenses were detected in source scan.

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/Merger.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2019 Matthias Sohn <matthias.sohn@sap.com>
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/Monitoring.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2010 Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/TransportGitSsh.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/BasePackConnection.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Florian Köberle <florianskarten@web.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/fnmatch/AbstractHead.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/fnmatch/WildCardHead.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/fnmatch/LastHead.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/fnmatch/CharacterHead.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/fnmatch/GroupHead.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/fnmatch/Head.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/fnmatch/RestrictedWildCardHead.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/fnmatch/FileNameMatcher.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008-2009, Johannes E. Schindelin <johannes.schindelin@gmx.de> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/diff/Edit.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2015, Ivan Motsch <ivan.motsch@bsiag.com>

*

* This program and the accompanying materials are made available

* under the terms of the Eclipse Distribution License v1.0 which

* accompanies this distribution, is reproduced below, and is

* available at http://www.eclipse.org/org/documents/edl-v10.php

*

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or
* without modification, are permitted provided that the following
* conditions are met:
*
* - Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above
*   copyright notice, this list of conditions and the following
*   disclaimer in the documentation and/or other materials provided
*   with the distribution.
*
* - Neither the name of the Eclipse Foundation, Inc. nor
 the
*   names of its contributors may be used to endorse or promote
*   products derived from this software without specific prior
*   written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
* CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
* CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
* ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/attributes/AttributesHandler.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/Holder.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017, Google LLC and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*

* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/reftable/ReftableDatabase.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2010, Google Inc.
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/treewalk/CanonicalTreeParser.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/ObjectChecker.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/RefUpdate.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015,Matthias Sohn <matthias.sohn@sap.com> and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
* distribution, is reproduced below, and is available at
* http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
* - Redistributions of source code must retain the above copyright notice, this
* list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above copyright notice,
* this list of conditions and the following disclaimer in the documentation
* and/or other materials provided with the distribution.

```
*
 * - Neither the name of the Eclipse Foundation, Inc. nor the names of its
* contributors may be used to endorse or promote products derived from this
* software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/
```

Found
 in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/RefNotAdvertisedException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008-2016, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/internal/WorkQueue.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2011, 2013 Google Inc., and others. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsPackDescription.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2010 Google Inc.
* Copyright (C) 2008, 2009 Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PacketLineOut.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PacketLineIn.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, GitHub Inc.
* Copyright (C) 2016, Laurent Delaigue <laurent.delaigue@obeo.fr> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/SubmoduleUpdateCommand.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2010, Matthias Sohn <matthias.sohn@sap.com>
* Copyright (C) 2012-2021, Robin Rosenberg and others
*
* This program and the accompanying materials are made available under the

```
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/treewalk/WorkingTreeIterator.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, Google Inc.
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/HttpSupport.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/ObjectIdRef.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2016, Matthias Sohn <matthias.sohn@sap.com> and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
* distribution, is reproduced below, and is available at
* http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
* - Redistributions of source code must retain the above copyright notice, this
* list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above copyright notice,
* this list of conditions and the following disclaimer in the documentation
```

* and/or other materials provided with the distribution.
*
 * - Neither the name of the Eclipse Foundation, Inc. nor the names of its
* contributors may be used to endorse or promote products derived from this
* software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found
 in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/TooLargeObjectInPackException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009-2010, Google Inc.
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/RefDirectoryUpdate.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2020, Matthias Sohn <matthias.sohn@sap.com> and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.

```
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/errors/ServiceUnavailableException.java
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* Copyright (c) 2014 Konrad Kügler and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/merge/MergeConfig.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/PackInvalidException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/ObjectDirectory.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/FooterLine.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/PackLock.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/PackMismatchException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/PackDirectory.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/ObjectDatabase.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/RepositoryCache.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/EditList.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/LooseObjects.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/storage/file/WindowCacheConfig.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/FooterKey.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/ConfigInvalidException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/LongMap.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/ThreeWayMergeStrategy.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/InterruptTimer.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/dircache/BaseDirCacheEditor.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/PathFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/NotTreeFilter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011-2012, Robin Stocker <robin@nibor.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/RevWalkUtils.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/RemoteConfig.java
No license file was found, but licenses were detected in source scan.

/**
* Copyright (C) 2015, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/filter/ObjectFilter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.

```
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/BinaryBlobException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, Chris Aniszczyk <caniszczyk@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/InitCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/FetchCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/PushCommand.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2020, Google LLC. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/TopoNonIntermixSortGenerator.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2021, Fabio Ponciroli <ponch@gerritforge.com>
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
```

```
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/SearchForReuseTimeout.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008, 2010 Google Inc.
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/BasePackFetchConnection.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, 2020 Chris Aniszczyk <caniszczyk@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/TagCommand.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2010, Google Inc. and others
*
* This program and the accompanying materials are made available under the
```

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/UnpackedObject.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2010-2012, Robin Stocker <robin@nibor.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/merge/MergeMessageFormatter.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2010, 2013 Google Inc. and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/io/TeeInputStream.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/RefDatabase.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011, Chris Aniszczyk <zx@redhat.com>

* Copyright (C) 2011, Abhishek Bhatnagar <abhatnag@redhat.com> and others

*

* This program and the accompanying materials are made available under the

```
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/CleanCommand.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2017, Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/UnsupportedPackVersionException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/UnsupportedPackIndexVersionException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/NoPackSignatureException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2012, Robin Rosenberg <robin.rosenberg@dewire.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/ThrowingPrintWriter.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2014, 2021 Andrey Loskutov <loskutov@gmx.de> and others
*
```

```
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/ignore/FastIgnoreRule.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2009, Johannes Schindelin <johannes.schindelin@gmx.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/IntList.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2014, 2020 Andrey Loskutov <loskutov@gmx.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/ignore/IMatcher.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2017, Google Inc.
* and other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available
```

Found

 in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackInserter.java

No license file was found, but licenses were detected in source scan.

* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsBlock.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsPackFile.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>
* Copyright (C) 2007-2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2010, Jens Baumgart <jens.baumgart@sap.com>
* Copyright (C) 2013, Robin Stocker <robin@nibor.org>
* Copyright (C) 2014, Axel Richard <axel.richard@obeo.fr> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/IndexDiff.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015, Ivan Motsch <ivan.motsch@bsiag.com>,
* Copyright (C) 2017, Obeo (mathieu.cartaud@obeo.fr)
*
* This program and the accompanying materials are made available
* under the terms of the Eclipse Distribution License v1.0 which
* accompanies this distribution, is reproduced below, and is
* available at http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or
* without modification, are permitted provided that the following

* conditions are met:
*
* - Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above
*   copyright notice, this list of conditions and the following
*   disclaimer in the documentation and/or other materials provided
*   with the distribution.
*
*
 - Neither the name of the Eclipse Foundation, Inc. nor the
*   names of its contributors may be used to endorse or promote
*   products derived from this software without specific prior
*   written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
* CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
* CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
* ADVISED OF THE POSSIBILITY OF SUCH
 DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/attributes/Attributes.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, 2019 Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/blame/BlameGenerator.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/blame/Candidate.java
No license file was found, but licenses were detected in source scan.

<!--
 Copyright (C) 2009, Google Inc.
 Copyright (C) 2009, Igor Fedorenko <igor@ifedorenko.com>
 Copyright (C) 2008, Imran M Yousuf <imyousuf@smartitengineering.com>
 Copyright (C) 2010, Matthias Sohn <matthias.sohn@sap.com> and others

 This program and the accompanying materials are made available under the
 terms of the Eclipse Distribution License v. 1.0 which is available at
 http://www.eclipse.org/org/documents/edl-v10.php.

 SPDX-License-Identifier: BSD-3-Clause
-->

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/META-INF/maven/org.eclipse.jgit/org.eclipse.jgit/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/PersonIdent.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Mike Ralphson <mike@abacus.co.uk>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.

```
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/TagOpt.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008, 2019 Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/QuotedString.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2012, Research In Motion Limited and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/merge/ThreeWayMerger.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
```

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/Ref.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/AnyObjectId.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012 Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/ArchiveCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2019 Google LLC and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/FileReftableDatabase.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/FileReftableStack.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Charles O'Farrell <charleso@charleso.org>
* Copyright (C) 2010, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.

*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/RefComparator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015, Christian Halstrick <christian.halstrick@sap.com> and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
* distribution, is reproduced below, and is available at
* http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
* - Redistributions of source code must retain the above copyright notice, this
* list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above copyright notice,
* this list of conditions and the following disclaimer in the documentation
* and/or other materials provided with the distribution.
 *
* - Neither the name of the Eclipse Foundation, Inc. nor the names of its
* contributors may be used to endorse or promote products derived from this
* software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH
 DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/IndexReadException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/TooLargePackException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/FilterFailedException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/UnpackedObjectCache.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/notes/NonNoteEntry.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/HashedSequencePair.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackInputStream.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/AsyncObjectLoaderQueue.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/SimilarityRenameDetector.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/FileObjectDatabase.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/DeltaTask.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/notes/LeafBucket.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/CredentialItem.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/events/RefsChangedEvent.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/FileSnapshot.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/DeltaIndex.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/ThreadSafeDeltaCache.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/RepositoryBuilder.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/StoredObjectRepresentation.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/LocalObjectToPack.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/DiffConfig.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/AmbiguousObjectException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/RemoteRepositoryException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/LargeObjectException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/notes/Note.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/FollowFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/DeltaCache.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/BaseRepositoryBuilder.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/LargePackedWholeObject.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/DiffAlgorithm.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/DeltaIndexScanner.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/DeltaWindowEntry.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/LargePackedWholeObject.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/events/ConfigChangedEvent.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/TreeFormatter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/SymbolicRef.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/RefMap.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/RawCharUtil.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/notes/NoteParser.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/AsyncOperation.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/events/IndexChangedEvent.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/notes/InMemoryNoteBucket.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/RefFilter.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/storage/file/FileRepositoryBuilder.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/UnpackException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/LocalObjectRepresentation.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/pack/DeltaEncoder.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/diff/HistogramDiff.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/diff/HashedSequenceComparator.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/diff/LowLevelDiffAlgorithm.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/diff/HashedSequence.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/events/ListenerList.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/dfs/PackInputStream.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/ThreadSafeProgressMonitor.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/notes/FanoutBucket.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/NoWorkTreeException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/ObjectReader.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/StoredObjectRepresentationNotAvailableException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/events/RepositoryListener.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/pack/ObjectReuseAsIs.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/notes/NoteMap.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/StoredConfig.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/events/ListenerHandle.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/SequenceComparator.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/SimilarityIndex.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/AsyncRevObjectQueue.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/RefList.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/notes/NoteBucket.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/HistogramDiffIndex.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/RenameDetector.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/ObjectStream.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/AsyncObjectSizeQueue.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/WriteConfig.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/Subsequence.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/SubsequenceComparator.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/pack/DeltaWindow.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, 2013 Robin Rosenberg and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/AutoCRLFOutputStream.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/ObjectId.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2009, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/dircache/DirCacheBuildIterator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Marc Strapetz <marc.strapetz@syntevo.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/attributes/Attribute.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 2019, Google LLC  and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* http://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/connectivity/FullConnectivityChecker.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/connectivity/IterativeConnectivityChecker.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/ReceiveCommandErrorHandler.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/UnpackErrorHandler.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/ConnectivityChecker.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2015, Kaloyan Raev <kaloyan.r@zend.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/RemoteRemoveCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/RemoteSetUrlCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/RemoteListCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/RemoteAddCommand.java
No license file was found, but licenses were detected in source scan.

```
/*
```

* Copyright (C) 2009-2010, Google Inc.

* Copyright (C) 2008-2009, Johannes E. Schindelin <johannes.schindelin@gmx.de> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/RawTextComparator.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2013, Christian Halstrick <christian.halstrick@sap.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/IllegalTodoFileModification.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/RebaseTodoFile.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/RebaseTodoLine.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/NoMergeBaseException.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008-2009, Google Inc.

* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/EmptyTreeIterator.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/AbstractTreeIterator.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Google Inc.
* Copyright (C) 2009, Sasa Zivkov <sasa.zivkov@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/MissingBundlePrerequisiteException.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012, Robin Rosenberg
* Copyright (C) 2010, 2013 Marc Strapetz <marc.strapetz@syntevo.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/AutoCRLFInputStream.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014, André de Oliveira <andre.oliveira@liferay.com>
*
* This program and the accompanying materials are made available
* under the terms of the Eclipse Distribution License v1.0 which
* accompanies this distribution, is reproduced below, and is
* available at http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.

*

* Redistribution and use in source and binary forms, with or

* without modification, are permitted provided that the following

* conditions are met:

*

* - Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

*

* - Redistributions in binary form must reproduce the above

*   copyright notice, this list of conditions and the following

*   disclaimer in the documentation and/or other materials provided

*   with the distribution.

*

* - Neither the name of the Eclipse Foundation,

 Inc. nor the

*   names of its contributors may be used to endorse or promote

*   products derived from this software without specific prior

*   written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND

* CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,

* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR

* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT

* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;

* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER

* CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,

* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF

* ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/EolAwareOutputStream.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009-2010, Google Inc.

* Copyright (C) 2009, Robin Rosenberg

* Copyright (C) 2009, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

```
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/RefRename.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008, Charles O'Farrell <charleso@charleso.org>
* Copyright (C) 2009-2010, Google Inc.
* Copyright (C) 2009, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/RefWriter.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2012, Sasa Zivkov <sasa.zivkov@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/EmptyProgressMonitor.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, Mathias Kinzler <mathias.kinzler@sap.com> and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
```

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/InvalidRefNameException.java

No license file was found, but licenses were detected in source scan.

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/diff/DiffEntry.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014, 2017 Andrey Loskutov <loskutov@gmx.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/ignore/internal/Strings.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Mark Struberg <struberg@yahoo.de>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/CommitTimeRevFilter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>
* Copyright (C) 2008-2010, Google Inc.
* Copyright (C) 2006-2010, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/FileRepository.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012, 2021 GitHub Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/StashApplyCommand.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2011, Google Inc.
* Copyright (C) 2007-2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/ObjectDirectoryPackParser.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/PackParser.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Red Hat Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/attributes/AttributesNode.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Mathias Kinzler <mathias.kinzler@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/CheckoutResult.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/PullResult.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014, Alexey Kuznetsov <axet@me.com>
*
* This program and the accompanying materials are made available
* under the terms of the Eclipse Distribution License v1.0 which
* accompanies this distribution, is reproduced below, and is
* available at http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or
* without modification, are permitted provided that the following
* conditions are met:
*
* - Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above
*   copyright notice, this list of conditions and the following
*   disclaimer in the documentation and/or other materials provided
*   with the distribution.
*
* - Neither the name of the Eclipse Foundation, Inc. nor the
*   names of its contributors may be used to endorse or promote
*   products derived from this software without specific prior

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/NetRCCredentialsProvider.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/NetRC.java

No license file was found, but licenses were detected in source scan.

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/TeeOutputStream.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/Hex.java

No license file was found, but licenses were detected in source scan.

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/BaseConnection.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008, 2009, Google Inc.

* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/dircache/DirCacheEditor.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2019, Thomas Wolf <thomas.wolf@paranor.ch> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/treewalk/InstantComparator.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2010, Jens Baumgart <jens.baumgart@sap.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/treewalk/filter/NotIgnoredFilter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, Robin Rosenberg and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/dircache/InvalidPathException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017, David Pursehouse <david.pursehouse@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/PushConfig.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/SubmoduleConfig.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012, Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.

```
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/GarbageCollectCommand.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2017, Two Sigma Open Source and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/SubmoduleDeinitCommand.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/SubmoduleDeinitResult.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009-2010, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/StringUtils.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/resolver/RepositoryResolver.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/io/StreamCopyThread.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/resolver/ServiceNotEnabledException.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/RepositoryNotFoundException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/resolver/UploadPackFactory.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/DisabledOutputStream.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/resolver/FileResolver.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/io/MessageWriter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/resolver/ServiceNotAuthorizedException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/resolver/ReceivePackFactory.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, 2013, Mathias Kinzler <mathias.kinzler@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/RebaseResult.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2017 Two Sigma Open Source and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/RefLeaseSpec.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/GcLog.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010,Mathias Kinzler <mathias.kinzler@sap.com> and
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/CannotDeleteCurrentBranchException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/NotMergedException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/UnmergedPathsException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/RefNotFoundException.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2009, Christian Halstrick <christian.halstrick@sap.com>

* Copyright (C) 2014, André de Oliveira <andre.oliveira@liferay.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/MergeFormatterPass.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/ByteWindow.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/FileMode.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2008-2009, Google Inc.

* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/dircache/DirCacheBuilder.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/util/TemporaryBuffer.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/dircache/DirCacheTree.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/TreeWalk.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/RevCommit.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/dircache/DirCacheIterator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2013 Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/RefSpec.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2014 Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revplot/PlotCommit.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revplot/AbstractPlotRenderer.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others

```
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/TrackingRefUpdate.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, Google Inc.
* Copyright (C) 2008-2009, Johannes E. Schindelin <johannes.schindelin@gmx.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/diff/Sequence.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/CheckoutConflictException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>
```

* Copyright (C) 2006, 2007, Robin Rosenberg <robin.rosenberg@dewire.com>

* Copyright (C) 2006, 2020, Shawn O. Pearce <spearce@spearce.org> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/CommitBuilder.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2016, Google Inc. and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/io/IsolatedOutputStream.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/ReceivedPackStatistics.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/time/MonotonicClock.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/time/MonotonicSystemClock.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/WantNotValidException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/InsecureCipherFactory.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/Paths.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/time/ProposedTimestamp.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2019, Thomas Wolf <thomas.wolf@paranor.ch> and others

*

```
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* http://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/RepositoryBuilderFactory.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2008-2020, Johannes E. Schindelin <johannes.schindelin@gmx.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/diff/DiffFormatter.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, 2013 Marc Strapetz <marc.strapetz@syntevo.com>
* Copyright (C) 2015, 2020 Ivan Motsch <ivan.motsch@bsiag.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
/**
 * A special exception thrown when {@link AutoLFInputStream} is told to
 * throw an exception when attempting to read a binary file. The exception
 * may be thrown at any stage during reading.
 *
 * @since 3.3
 */
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/util/io/AutoLFInputStream.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2020, Google LLC and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* http://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/logging/PerformanceLogRecord.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/revwalk/AddToBitmapWithCacheFilter.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsBundleWriter.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/logging/PerformanceLogContext.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/Reftable.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/ReftableConstants.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/BlockWriter.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/BlockBasedFile.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/ReftableConfig.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/fsck/FsckPackParser.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/RefCursor.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/ReftableWriter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/revwalk/AddToBitmapFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/ReftableCompactor.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/io/BlockSource.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/sha1/SHA1.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/MergedReftable.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/EmptyLogCursor.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/BlobObjectChecker.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/ReftableOutputStream.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/CorruptPackIndexException.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/PackedBatchRefUpdate.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/LogCursor.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsReftableStack.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/ReftableReader.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/BlockReader.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsFsck.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/revwalk/AddUnseenToBitmapFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/fsck/FsckError.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/reftable/BlockSizeTooSmallException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/sha1/Sha1CollisionException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/dfs/DfsReftable.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/internal/storage/dfs/DfsReftableDatabase.java

*

 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/dfs/DfsReaderIoStats.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2018, Markus Duft <markus.duft@ssi-schaefer.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/SshSupport.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/LfsFactory.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011, 2021 IBM Corporation and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/ApplyCommand.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011, Tomasz Zarna <Tomasz.Zarna@pl.ibm.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/SkipRevFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/DeleteTagCommand.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/DiffCommand.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/MaxCountRevFilter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2013, Robin Stocker <robin@nibor.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/TreeFilterMarker.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018, Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/FtpChannel.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Mathias Kinzler <mathias.kinzler@sap.com>
* Copyright (C) 2010, Chris Aniszczyk <caniszczyk@gmail.com>
* Copyright (C) 2012, 2020, Robin Rosenberg and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/ConfigConstants.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, 2021 Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/PathSuffixFilter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2016, Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/attributes/FilterCommandFactory.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/attributes/FilterCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 Marc Stevens <marc@marc-stevens.nl>, Dan Shumow <danshu@microsoft.com>
* Distributed under the MIT Software License.
* MIT License
*
* Copyright (c) 2017:

```
*      Marc Stevens
*      Cryptology Group
*      Centrum Wiskunde & Informatica
*      P.O. Box 94079, 1090 GB Amsterdam, Netherlands
*      marc@marc-stevens.nl
*
*      Dan Shumow
*      Microsoft Research
*      danshu@microsoft.com
*
* Permission is hereby granted, free of charge, to any person obtaining a copy
* of this software and associated documentation files (the "Software"), to deal
* in the Software without restriction, including without limitation the rights
* to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
* copies of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:
*
* The above copyright notice and this permission notice shall be included in
 all
* copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
* IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
* AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
* LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
* OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/sha1/UbcCheck.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>
* Copyright (C) 2008-2010, Google Inc.
* Copyright (C) 2006-2010, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2012, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2012, Daniel Megert <daniel_megert@ch.ibm.com>
* Copyright (C) 2017, Wim Jongman <wim.jongman@remainsoftware.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
```

*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/Repository.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2015 Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/NB.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Google Inc.
* Copyright (C) 2009, Robin Rosenberg and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/RefDirectoryRename.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 Ericsson and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/DiffInterruptedException.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>
* Copyright (C) 2009-2010, Google Inc.
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/RefDirectory.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/storage/file/ReflogWriter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/ProgressMonitor.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/OrRevFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/RevWalkException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/AndTreeFilter.java

*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/PathFilterGroup.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/filter/AndRevFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/NotSupportedException.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/OrTreeFilter.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/TextProgressMonitor.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2007, Dave Watson <dwatson@mimvista.com>
* Copyright (C) 2008, 2010 Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2008, 2020 Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/TransportLocal.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2009, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/IO.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009, The Android Open Source Project
```

* Copyright (C) 2009, Shawn O. Pearce <spearce@spearce.org>

* Copyright (C) 2018, David Pursehouse <david.pursehouse@gmail.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/ObjectIdSerializer.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011, GEBIT Solutions and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/RenameCallback.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2010, Robin Rosenberg and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/FS_POSIX.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/ChangeIdUtil.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2012 Christian Halstrick and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/util/GitDateParser.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 2020 Julian Ruppel <julian.ruppel@sap.com>

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/lib/CommitConfig.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2010, Google Inc.

* Copyright (C) 2010, Marc Strapetz <marc.strapetz@syntevo.com> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/treewalk/filter/SkipWorkTreeFilter.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2011, 2019 GitHub Inc. and others

*

* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/BlameCommand.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2009, Google Inc.
* Copyright (C) 2009, Matthias Sohn <matthias.sohn@sap.com>
* Copyright (C) 2012, Research In Motion Limited and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/merge/MergeStrategy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017 Ericsson and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/CancelledException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, 2021 Red Hat Inc. and others
*
* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/ignore/IgnoreNode.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Christian Halstrick <christian.halstrick@sap.com>,
* Copyright (C) 2010, Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/merge/StrategyResolve.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2009, Vasyl' Vavrychuk <vvavrychuk@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/errors/RevisionSyntaxException.java
No license file was found, but licenses were detected in source scan.

<title>Eclipse Distribution License - Version 1.0</title>
<p>Eclipse Distribution License - v 1.0</p>
<p>All rights reserved.</p>
<p>Redistribution and use in source and binary forms, with or without modification,

are permitted provided that the following conditions are met:
Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
Neither the name of the Eclipse Foundation, Inc. nor the names of its
this software without specific prior written permission.
<p>Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/about.html
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Google Inc.
* Copyright (C) 2008, Robin Rosenberg <robin.rosenberg@dewire.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/events/RepositoryEvent.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2017, 2020 Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/lib/TypedConfigGetter.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2007, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2006-2021, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/LockFile.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2012, Google Inc.
* and other copyright owners as documented in the project's IP log.
* * This program and the accompanying materials are made available
* under the terms of the Eclipse Distribution License v1.0 which
* accompanies this distribution, is reproduced below, and is
* available at http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or
* without modification, are permitted provided that the following
* conditions are met:
*
* - Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* - Redistributions in binary form must reproduce the above
*   copyright notice, this list of conditions and the following
*   disclaimer in the documentation and/or other materials provided
*   with the distribution.
*
* - Neither
 the name of the Eclipse Foundation, Inc. nor the
*   names of its contributors may be used to endorse or promote
*   products derived from this software without specific prior
*   written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND

* CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
* INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
* CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
* CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
* ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/AbstractAdvertiseRefsHook.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/AdvertiseRefsHook.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014, Andrey Loskutov <loskutov@gmx.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/ignore/internal/PathMatcher.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/ignore/internal/AbstractMatcher.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/ignore/internal/NameMatcher.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/ignore/internal/WildMatcher.java
*
 /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/ignore/internal/TrailingAsteriskMatcher.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/ignore/internal/LeadingAsteriskMatcher.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/ignore/internal/WildCardMatcher.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2009, Johannes E. Schindelin <johannes.schindelin@gmx.de>
* Copyright (C) 2009, Johannes Schindelin <johannes.schindelin@gmx.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/diff/MyersDiff.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2009, Robin Rosenberg <robin.rosenberg@dewire.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/PushResult.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2010, Garmin International
* Copyright (C) 2010, Matt Fischer <matt.fischer@garmin.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-

jar/org/eclipse/jgit/revwalk/DepthGenerator.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/revwalk/DepthWalk.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Christian Halstrick <christian.halstrick@sap.com>
* Copyright (C) 2010, Google Inc. and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/merge/MergeChunk.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Constantine Plotnikov <constantine.plotnikov@gmail.com>
* Copyright (C) 2009, JetBrains s.r.o.
* Copyright (C) 2008, Mike Ralphson <mike@abacus.co.uk>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/WalkTransport.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2019, Matthias Sohn <matthias.sohn@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/References.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/Stats.java

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/file/PackFileSnapshot.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2011, Roberto Tyley <roberto.tyley@gmail.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/api/TransportConfigCallback.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2009, Robin Rosenberg <robin.rosenberg@dewire.com>
* Copyright (C) 2009, Yann Simon <yann.simon.fr@gmail.com>
* Copyright (C) 2012, Daniel Megert <daniel_megert@ch.ibm.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/SystemReader.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2010 Google Inc.
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2013, Matthias Sohn <matthias.sohn@sap.com>
* Copyright (C) 2017, 2020 Thomas Wolf <thomas.wolf@paranor.ch> and others

```
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/transport/TransportHttp.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2009, Google Inc.
* Copyright (C) 2008, Marek Zawirski <marek.zawirski@gmail.com>
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/RevTree.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/revwalk/RevBlob.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/lib/ObjectIdSubclassMap.java
```

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2010, Chris Aniszczyk <caniszczyk@gmail.com> and
* other copyright owners as documented in the project's IP log.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v1.0 which accompanies this
* distribution, is reproduced below, and is available at
* http://www.eclipse.org/org/documents/edl-v10.php
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
```

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/InvalidRemoteException.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/api/errors/InvalidTagNameException.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/CredentialsProvider.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/errors/UnsupportedCredentialItem.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008-2011, Google Inc.
* Copyright (C) 2006-2008, Shawn O. Pearce <spearce@spearce.org> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/storage/dfs/DfsReader.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018, Konrad Windszus <konrad_w@gmx.de> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/transport/http/NetscapeCookieFileCache.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/util/LRUMap.java
* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-
jar/org/eclipse/jgit/internal/transport/http/NetscapeCookieFile.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2008, 2009, Google Inc.
* Copyright (C) 2008, Shawn O. Pearce <spearce@spearce.org>
* Copyright (C) 2010, Matthias Sohn <matthias.sohn@sap.com>
* Copyright (C) 2010, 2020, Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280025_1680503836.512464/0/org-eclipse-jgit-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/dircache/DirCacheEntry.java

1.200 eclipse-jgit-http-apache 5.13.1.202206130422-r

1.200.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2014, SAP AG and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280004_1680503824.7144036/0/org-eclipse-jgit-http-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/http/apache/internal/HttpApacheText.java
No license file was found, but licenses were detected in source scan.

<title>Eclipse Distribution License - Version 1.0</title>

<p>Eclipse Distribution License - v 1.0</p>

<p>All rights reserved.</p>

<p>Redistribution and use in source and binary forms, with or without modification,

are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice,

this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,

this list of conditions and the following disclaimer in the documentation

Neither the name of the Eclipse Foundation, Inc. nor the names of its

this software without specific prior written permission.

Found in path(s):

* /opt/cola/permits/1612280004_1680503824.7144036/0/org-eclipse-jgit-http-apache-5-13-1-202206130422-r-sources-1-jar/about.html
No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2014 Christian Halstrick <christian.halstrick@sap.com> and others

```
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280004_1680503824.7144036/0/org-eclipse-jgit-http-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/http/apache/TemporaryBufferEntity.java
No license file was found, but licenses were detected in source scan.

```
<!--
 Copyright (C) 2014, Matthias Sohn <matthias.sohn@sap.com> and others

 This program and the accompanying materials are made available under the
 terms of the Eclipse Distribution License v. 1.0 which is available at
 http://www.eclipse.org/org/documents/edl-v10.php.

 SPDX-License-Identifier: BSD-3-Clause
-->
```

Found in path(s):
* /opt/cola/permits/1612280004_1680503824.7144036/0/org-eclipse-jgit-http-apache-5-13-1-202206130422-r-sources-1-jar/META-INF/maven/org.eclipse.jgit/org.eclipse.jgit.http.apache/pom.xml
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2013, 2020 Christian Halstrick <christian.halstrick@sap.com> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280004_1680503824.7144036/0/org-eclipse-jgit-http-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/http/apache/HttpClientConnectionFactory.java
* /opt/cola/permits/1612280004_1680503824.7144036/0/org-eclipse-jgit-http-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/http/apache/HttpClientConnection.java

1.201 sshd-osgi 2.7.0

1.201.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/
/**
    * According to <A HREF="https://tools.ietf.org/html/rfc4252#section-8">RFC 4252 - section 8</A>:
    *
    * <PRE>
    *      Both the server and the client should check whether the underlying
    *    transport layer provides confidentiality (i.e., if encryption is
    *    being used).  If no confidentiality is provided ("none" cipher),
    *    password authentication SHOULD be disabled.  If there is no
    *    confidentiality or no MAC, password change SHOULD be disabled.
    * </PRE>
    *
    * @param  session The {@link SessionContext} being used for authentication
    * @return       {@code true} if the context is not {@code null} and the ciphers have been established to anything
    *           other than &quot;none&quot;.
    * @see        CommonModuleProperties#ALLOW_INSECURE_AUTH
    * @see        SessionContext#isSecureSessionTransport(SessionContext)
    */
```

Found in path(s):
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/auth/UserAuthMethodFactory.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
```

* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/
// Throw a special exception - SSHD-777

Found in path(s):
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/AbstractConnectionService.java
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/
/**
* Special exception thrown by
* {@link AbstractSession#attachSession(org.apache.sshd.common.io.IoSession, AbstractSession)}
 in order to indicate an
* already attached I/O session
*
* @author Apache MINA SSHD Project
*/

Found in path(s):
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/MultipleAttachedSessionException.java
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/
/**
* Provides a way to listen and handle the {@code SSH_MSG_IGNORE} and {@code SSH_MSG_DEBUG}
messages that are received
* by
 a session, as well as proprietary and/or extension messages and behavior.
*
* @author Apache MINA SSHD Project
*/
/**
   * Invoked if the user configured usage of a proprietary heartbeat mechanism. <B>Note:</B> by default throws
   * {@code UnsupportedOperationException} so users who configure a proprietary heartbeat mechanism option
must
   * provide an implementation for this method.
   *
   * @param service   The {@link ConnectionService} through which the heartbeat is being executed.
   * @return   {@code true} whether heartbeat actually sent - <B>Note:</B> used mainly for debugging
purposes.
   * @throws Exception If failed to send the heartbeat - <B>Note:</B> causes associated session termination.
   */

Found in path(s):
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/ReservedSessionMessagesHandler.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/random/package.html
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/digest/package.html
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/package.html
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/package.html
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/mac/package.html
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/compression/package.html
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/openssh/kdf/BCrypt.java
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/CipherNone.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/exception/SshChannelException.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/eddsa/Ed25519PEMResourceKeyParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/pubkey/KeyAgentIdentity.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/ClientChannelHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/keyverifier/RequiredServerKeyVerifier.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/config/keys/DefaultAuthorizedKeysAuthenticator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/u2f/SkED25519PublicKey.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/openssh/kdf/BCryptKdfOptions.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/keyprovider/ClassLoadableResourceKeyPairProvider.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/buffer/keys/RSABufferPublicKeyParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/kex/DHGServer.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/BuiltinSignatures.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHKeyPairResourceParser.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/ServerFactoryManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/SshServer.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/KeyPairResourceLoader.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/channel/AbstractServerChannel.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/PtyCapableChannelSession.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/DESPrivateKeyObfuscator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/throttle/ChannelStreamWriterResolver.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/ChannelExec.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/DHG.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/threads/CloseableExecutorService.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/random/RandomFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/AbstractUserAuthFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/config/SshServerConfigFileReader.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/InteractiveProcessShellFactory.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/SshAgentConstants.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/AsyncCommandInputStreamAware.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/pubkey/SshAgentPublicKeyIterator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/client/config/hosts/ConfigFileHostEntryResolver.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/extension/KexExtensionParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/der/ASN1Object.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/PortForwardingEventListenerManagerHolder.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/UserAuth.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/SessionListenerManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/AbstractSessionFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/UnknownChannelReferenceHandlerManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/exception/SshChannelClosedException.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/keyverifier/RejectAllServerKeyVerifier.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/AttributeStore.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/forward/ForwardedTcpipFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/ReservedSessionMessagesManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/ReadPendingException.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/buffer/keys/ECBufferPublicKeyParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/AbstractCommandSupport.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/unix/UnixAgentFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/keyprovider/KeyPairProviderHolder.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/unix/AprLibrary.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/keyprovider/MappedKeyPairProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/ExceptionUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/ShellFactorySelector.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/AsyncCommandErrorStreamAware.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/password/StaticPasswordAuthenticator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/io/BuiltinIoServiceFactoryFactories.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/io/IoHandlerFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/buffer/keys/SkED25519BufferPublicKeyParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/session/UnknownChannelReferenceHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/BuiltinIdentities.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/LogLevelValue.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/KexState.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/Service.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/mac/MacFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/KeyExchange.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/impl/AbstractKeyEntryResolver.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/WelcomeBannerPhase.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/IdentityResourceLoader.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/channel/PtyChannelConfigurationHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/forward/TcpipServerChannel.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/io/NoCloseReader.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/auth/UserAuthFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/channel/StreamingChannel.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/VersionProperties.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/command/Command.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/x11/X11ForwardingExceptionMarker.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/common/util/closeable/SimpleCloseable.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/keyverifier/StaticServerKeyVerifier.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/KeyRandomArt.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/threads/ThreadUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/unix/ChannelAgentForwardingFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/pem/KeyPairPEMResourceParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/net/ConnectionEndpointsIndicator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/keyboard/UserAuthKeyboardInteractive.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/keyverifier/ModifiedServerKeyAcceptor.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/global/TcpipForwardHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/keyverifier/DefaultKnownHostsServerKeyVerifier.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/simple/AbstractSimpleClient.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/exit/AbstractChannelExitRequestHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/session/ServerSession.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/UserAuthFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/IoWriteFutureImpl.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/resource/ResourceStreamProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/hostbased/UserAuthHostBased.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/AbstractSecurityProviderRegistrar.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/subsystem/SubsystemClient.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/hosts/HostConfigEntry.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/file/root/RootedFileSystemProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/simple/SimpleClient.java

*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/PropertyResolverUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/local/ProxyAgentFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/helper/LazyMatchingTypeIterator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/ClientSessionCreator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/EmptyInputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/mac/BaseMac.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/ChannelOutputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/forward/RejectAllForwardingFilter.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/closeable/AbstractCloseable.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/DefaultForwarderFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/impl/OpenSSHCertificateDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/Session.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/future/AuthFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/bouncycastle/BouncyCastleRandomFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/SimpleIoOutputStream.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/compression/CompressionFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/logging/AbstractLoggingBean.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/future/AbstractSshFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/AbstractIoServiceFactoryFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/file/util/MockPath.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/forward/AcceptAllForwardingFilter.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/keyboard/KeyboardInteractiveAuthenticator.java
*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/BuiltinDHFactories.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/keyprovider/FileKeyPairProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/channel/ChannelListener.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/NumberUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/auth/keyboard/UserAuthKeyboardInteractive.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/auth/password/UserAuthPasswordFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/channel/PipeDataReceiver.java
*
/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/io/InputStreamWithChannel.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/session/SessionHeartbeatController.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/io/NoCloseWriter.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/channel/PtyChannelConfiguration.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/config/keys/LazyClientIdentityIterator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/security/SecurityEntityFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/ServiceFactory.java
*
/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/keyprovider/AbstractKeyPairProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHECDSAPrivateKeyEntryDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/compression/BaseCompression.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/PublicKeyEntryResolver.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/buffer/keys/ED25519BufferPublicKeyParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/impl/DSSPublicKeyEntryDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/extension/DefaultClientKexExtensionHandler.java
*
/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/channel/exit/ExitSignalChannelRequestHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/common/keyprovider/AbstractResourceKeyPairProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/SshAgentFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/CommandLifecycle.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/PtyChannelConfigurationMutator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/compression/CompressionZlib.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHRSAPrivateKeyDecoder.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/extension/parser/DelayCompression.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/buffer/keys/AbstractBufferPublicKeyParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/nio2/Nio2ServiceFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoServiceEventListenerManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/session/ServerUserAuthServiceFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/file/nativefs/NativeFileSystemFactory.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/random/AbstractRandomFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/channel/ChannelSessionFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/PublicKeyRawDataReader.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/keys/ClientIdentityProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/ChannelPipedOutputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/StandardEnvironment.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/simple/SimpleClientConfigurator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/ClientSession.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/kex/DHGEXClient.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/bouncycastle/BouncyCastleKeyPairResourceParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/extension/parser/ServerSignatureAlgorithms.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoWriteFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/ClientSessionHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/FactoryManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/RequestHandler.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/keyverifier/KnownHostsServerKeyVerifier.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/keyboard/UserInteraction.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/nio2/Nio2Session.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/NamedResourceListParseResult.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/session/ServerProxyAcceptor.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/CompressionConfigValue.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/DirectoryScanner.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/simple/AbstractSimpleClientSessionCreator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/Channel.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/ClientUserAuthService.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/ListParseResult.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/ProcessShell.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/helper/LazyIterablesConcatenator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/der/DERWriter.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/nio2/Nio2Service.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/keys/BuiltinClientIdentitiesWatcher.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/UserAuthNoneFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/KeyUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/common/signature/SignatureFactoriesManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/NullOutputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHDSSPrivateKeyEntryDecoder.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/future/DefaultKeyExchangeFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/ClientFactoryManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/ChannelShell.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/SignatureRSA.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/PublicKeyEntryDataResolver.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/global/OpenSshHostKeysHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/AbstractClientSession.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/resource/PathResource.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/keys/LazyClientKeyIdentityProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/session/ServerSessionHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/session/ServerUserAuthService.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/closeable/SequentialCloseable.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoInputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/common/DefaultAgentForwardSupport.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/NullInputStream.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/keyboard/InteractiveChallenge.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/pubkey/AuthorizedKeyEntriesPublickeyAuthenticator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/WindowClosedException.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/compression/CompressionInformation.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoSession.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/io/WritePendingException.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/channel/ChannelListenerManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/IgnoringEmptyMap.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/buffer/keys/BufferPublicKeyParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/net/SshdSocketAddress.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/PublicKeyRawDataDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/OptionalFeature.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/pubkey/AcceptAllPublickeyAuthenticator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/session/forward/PortForwardingTracker.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/channel/ClientChannelPendingMessagesQueue.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/keyverifier/ServerKeyVerifier.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/password/UserAuthPassword.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/Environment.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/u2f/SecurityKeyPublicKey.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/session/SessionFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/CommonModuleProperties.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/threads/SshdThreadFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/auth/UserAuth.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/pem/DSSPEMResourceKeyPairParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/config/keys/ClientIdentityLoaderHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/pem/PKCS8PrivateKeyInfo.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/mac/MacInformation.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/server/auth/hostbased/HostBasedAuthenticator.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/BuiltinUserAuthFactories.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/helper/LazyMatchingTypeIterable.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/net/NetworkConnector.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoOutputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/AbstractConnectionServiceRequestHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/CommandFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/ChannelSubsystem.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/channel/ChannelSessionAware.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/AlgorithmNameProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/channel/ServerChannelSessionHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/nio2/Nio2ServiceFactoryFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/session/ServerConnectionServiceFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/session/SessionFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/PortForwardingManager.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/Closeable.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/ClientProxyConnector.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/OpenSshCertificateImpl.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/Signature.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/BuiltinUserAuthFactories.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/SessionDisconnectHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/keyprovider/KeyPairProvider.java
*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/session/SessionWorkBuffer.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/command/CommandDirectErrorStreamAware.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHKeyDecryptor.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/forward/StaticDecisionForwardingFilter.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/security/bouncycastle/BouncyCastleSecurityProviderRegistrar.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/signature/SignatureECDSA.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/session/helpers/SessionHelper.java

*

 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/SshdEventListener.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/config/hosts/HostPatternValue.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/KeyPairResourceParser.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/file/root/RootedFileSystem.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/gss/GSSAuthenticator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/auth/pubkey/UserAuthPublicKey.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/future/VerifiableFuture.java

*

 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/shell/UnknownCommand.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/impl/SkECDSAPublicKeyEntryDecoder.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/AsyncAuthException.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/forward/ForwardingTunnelEndpointsProvider.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/config/keys/ClientIdentityFileWatcher.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/forward/LocalForwardingEntry.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/kex/AbstractDHClientKeyExchange.java

*

 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/agent/unix/AgentForwardedChannel.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/agent/unix/AgentServer.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/AbstractSession.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/closeable/Builder.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/threads/ExecutorServiceCarrier.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/ProxyUtils.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/SessionHolder.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/buffer/keys/SkECBufferPublicKeyParser.java

*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/auth/AbstractUserAuthServiceFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/config/keys/AuthorizedKeysAuthenticator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/ClientProxyConnectorHolder.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/file/nonefs/NoneFileSystemFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/local/ChannelAgentForwardingFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/logging/SimplifiedLoggerSkeleton.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/session/ServerProxyAcceptorHolder.java

*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/exception/SshChannelBufferedOutputException.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/keyprovider/MultiKeyIdentityIterator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/resource/ClassLoaderResource.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/TcpipForwardingExceptionMarker.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/password/AcceptAllPasswordAuthenticator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/ChannelAsyncInputStream.java

*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/keys/ClientIdentity.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/resource/IoResource.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/digest/BuiltinDigests.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/SshConfigFileReader.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/config/keys/ClientIdentitiesWatcher.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/session/ClientConnectionServiceFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/closeable/ParallelCloseable.java

*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/x11/X11ForwardSupport.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/FilePasswordProviderHolder.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/random/Random.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/channel/AbstractClientChannel.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/SshConstants.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/io/der/ASN1Class.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/signature/SignatureRSASHA1.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/config/hosts/KnownHostDigest.java

*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/SyslogFacilityValue.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/random/JceRandomFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/core/CoreModuleProperties.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/session/AbstractServerSession.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/RuntimeSshException.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/hostbased/StaticHostBasedAuthenticator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHParserContext.java

*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/functors/UnaryEquator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/extension/parser/AbstractKexExtensionParser.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/keyprovider/MultiKeyIdentityProvider.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/common/util/closeable/FuturesCloseable.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/SocksProxy.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/u2f/SkEcdsaPublicKey.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/global/CancelTcpipForwardHandler.java

*

 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/common/AgentDelegate.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/InvertedShell.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/VersionInfo.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/AbstractDH.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/SignatureSkED25519.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/ChannelPipedSink.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/auth/PasswordHolder.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/jaas/JaasPasswordAuthenticator.java

*

 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/hostbased/HostBasedAuthenticationReporter.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/channel/PuttyRequestHandler.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/AbstractSignature.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/common/AbstractAgentClient.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/ECCurves.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/file/util/MockFileSystem.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/eddsa/Ed25519PublicKeyDecoder.java

*

 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/keyprovider/SimpleGeneratorHostKeyProvider.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/Window.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/future/DefaultOpenFuture.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/ChannelSession.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/session/ServerSessionImpl.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/password/UserAuthPasswordFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/PathScanningMatcher.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/exception/SshChannelNotFoundException.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/PortForwardingEventListenerManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/pubkey/UserAuthPublicKeyFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/AggregateShellFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/extension/parser/Elevation.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/resource/AbstractIoResource.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/SecureByteArrayOutputStream.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/AbstractKeyPairResourceParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/KexFactoryManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/file/util/BasePath.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/local/AgentImpl.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/pem/ECDSAPEMResourceKeyPairParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/pubkey/UserAuthPublicKeyFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/nio2/Nio2Connector.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/SignatureFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/nio2/Nio2DefaultIoWriteFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/logging/LoggerSkeleton.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/BaseRC4Cipher.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/random/JceRandom.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/common/util/io/OutputStreamWithChannel.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/NoCloseInputStream.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/impl/AbstractIdentityResourceLoader.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/SyspropsMapWrapper.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/keys/DefaultClientIdentitiesWatcher.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/auth/UsernameHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/global/KeepAliveHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/SessionContextHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/Property.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/ChannelPipedInputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/ProcessShellCommandFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/SttySupport.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/file/root/RootedPath.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/AbstractFileSystemCommand.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/hostbased/UserAuthHostBasedFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/AbstractUserAuth.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/exit/ExitStatusChannelRequestHandler.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/der/ASN1Type.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/PrivateKeyObfuscator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoAcceptor.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/threads/SshThreadPoolExecutor.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/AbstractConnectionServiceFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/BuiltinFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/ChannelFactory.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/SecurityUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/ValidateUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/DHGroupData.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/keyprovider/KeyTypeIndicator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/AbstractChannelRequestHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/DefaultForwarder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/future/DefaultAuthFuture.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/ChannelAsyncOutputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/digest/DigestFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoConnector.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/future/SshFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/keyprovider/AbstractGeneratorHostKeyProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/FactoryManagerHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/PropertyResolver.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/keyboard/UserAuthKeyboardInteractiveFactory.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/EventListenerUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/local/LocalAgentFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/ForwarderFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/FilePasswordProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/pem/RSAPEMResourceKeyPairParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/FileInfoExtractor.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/common/util/threads/NoCloseExecutor.java

*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/extension/KexExtensionHandler.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/hostbased/RejectAllHostBasedAuthenticator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/CipherFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/closeable/NioChannelDelegateInvocationHandler.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/channel/AsyncDataReceiver.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/SessionContext.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/gss/UserAuthGSSFactory.java

*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/password/PasswordIdentityProvider.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/kex/DHGClient.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/throttle/DefaultChannelStreamWriter.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/PrivateKeyEntryResolver.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/EventNotifier.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/auth/MutableUserHolder.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/UserAuthNone.java

*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/channel/ServerChannel.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/buffer/Buffer.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/pubkey/AbstractKeyPairIterator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/AbstractKexFactoryManager.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/FileWatcherKeyPairResourceLoader.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/future/DefaultCloseFuture.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/PathUtils.java

*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/agent/SshAgentServer.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/hostbased/AcceptAllHostBasedAuthenticator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/future/WaitableFuture.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/session/ServerSessionAware.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/forward/ForwardingFilter.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/dh/AbstractDHKeyExchange.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/impl/AbstractPublicKeyEntryDecoder.java

*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/password/PasswordAuthenticator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/agent/local/AgentForwardedChannel.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/buffer/ByteArrayBuffer.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/FactoriesListParseResult.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/openssh/OpenSSHKdfOptions.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/impl/RSAPublicKeyDecoder.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/channel/ChannelDataReceiver.java

*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/forward/TcpForwardingFilter.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/FilePasswordProviderManager.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/IdentityUtils.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/SelectorUtils.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/AttributeRepository.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/session/helpers/DefaultUnknownChannelReferenceHandler.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/future/DefaultConnectFuture.java

*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/auth/MutableBasicCredentials.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/server/kex/Moduli.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/BuiltinCiphers.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoServiceFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/BaseCipher.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/AuthorizedKeyEntry.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/pubkey/UserAuthPublicKey.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/forward/ExplicitPortForwardingTracker.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/NamedFactoriesListParseResult.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/keyboard/UserAuthKeyboardInteractiveFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/CloseableEmptyInputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/keyprovider/FileHostKeyCertificateProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/AbstractChannel.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/eddsa/SignatureEd25519.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/ClientChannelEvent.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/LimitInputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/future/KeyExchangeFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/openssh/kdf/RawKdfOptions.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/Factory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/future/DefaultVerifiableSshFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/forward/X11ForwardingFilter.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/CommandDirectStreamsAware.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/BaseBuilder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/Signal.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/SessionDisconnectHandlerManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoReadFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/logging/LoggingUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/OsUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/hostbased/UserAuthHostBased.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/closeable/IoBaseCloseable.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/random/SingletonRandomFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/keyverifier/AcceptAllServerKeyVerifier.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/keyprovider/KeyIdentityProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/SshException.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/AbstractUserAuthFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/SshClient.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/file/util/BaseFileSystem.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/global/AbstractOpenSshHostKeysHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/ShellFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/SignatureFactoriesHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/future/DefaultSshFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/SessionTimeoutListener.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/hosts/HostPatternsHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/IoUtils.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/OpenSshCertificate.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/AsyncCommandStreamsAware.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/common/session/helpers/ReservedSessionMessagesHandlerAdapter.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/UnknownCommandFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/pubkey/CachingPublicKeyAuthenticator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/compression/BuiltinCompressions.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/auth/BasicCredentialsProvider.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/PtyMode.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/ClientBuilder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/pem/PEMResourceParserUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/ClientUserAuthServiceFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/ClientAuthenticationManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/exception/SshChannelOpenException.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/PrivateKeyEncryptionContext.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/password/RejectAllPasswordAuthenticator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/logging/SimplifiedLog.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/closeable/AbstractInnerCloseable.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/helpers/AbstractFactoryManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/ObjectBuilder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/nio2/Nio2Acceptor.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/Forwarder.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/pubkey/PublicKeyAuthenticationReporter.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/gss/CredentialHelper.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/TcpipClientChannel.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/kex/AbstractDHServerKeyExchange.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/PortForwardingInformationProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/hosts/KnownHostHashValue.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/PublicKeyEntry.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/auth/MutablePassword.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/BaseGCMCipher.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/buffer/BufferException.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/closeable/AutoCloseableDelegateInvocationHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/SshAgent.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/ChannelHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoService.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/file/nonefs/NoneFileSystemProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoConnectFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/AbstractUserAuth.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/AbstractSessionIoHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/writer/KeyPairResourceWriter.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/forward/AgentForwardingFilter.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/KeyExchangeFactory.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/pubkey/UserAuthPublicKeyIterator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/throttle/ChannelStreamWriterResolverManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/bouncycastle/BouncyCastleGeneratorHostKeyProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/ConfigFileReaderSupport.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/extension/KexExtensions.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/server/kex/DHGEXServer.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/KeyEntryResolver.java

*
/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/agent/unix/AgentServerProxy.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/security/eddsa/EdDSASecurityProviderRegistrar.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/ECDH.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/auth/UserAuthFactoriesManager.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/subsystem/SubsystemFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/kex/extension/parser/NoFlowControl.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/pubkey/RejectAllPublickeyAuthenticator.java

*
/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/session/ConnectionService.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/AbstractPrivateKeyObfuscator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/x11/ChannelForwardedX11.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/keyprovider/KeySizeIndicator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/auth/password/UserAuthPassword.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/loader/AESPrivateKeyObfuscator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/command/CommandDirectInputStreamAware.java

*
/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/security/SecurityProviderChoice.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/file/FileSystemAware.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/agent/unix/ChannelAgentForwarding.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/mac/BuiltinMacs.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/future/SshFutureListener.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/session/ServerConnectionService.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/agent/common/AgentForwardSupport.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/GenericUtils.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/LoggingFilterOutputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/eddsa/OpenSSHEd25519PrivateKeyEntryDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/ClientConnectionService.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/buffer/BufferUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/AbstractRequestHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/config/keys/ServerIdentity.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/SignatureRSASHA512.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/Cipher.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/resource/URIResource.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/ServerBuilder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/SignatureRSASHA256.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/impl/SkED25519PublicKeyEntryDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/SessionListener.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/TimeValueConfig.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/pubkey/PublicKeyIdentity.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/unix/AgentClient.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/MapEntryUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/pubkey/KeySetPublickeyAuthenticator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/impl/AbstractPrivateKeyEntryDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/password/PasswordAuthenticationReporter.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/local/AgentServerProxy.java
*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/ReflectionUtils.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/KeyTypeNamesSupport.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/digest/BaseDigest.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/global/NoMoreSessionsHandler.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/io/AbstractIoWriteFuture.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/Identity.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/compression/CompressionDelayedZlib.java

*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/Readable.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/auth/AbstractUserAuthMethodFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/command/CommandDirectOutputStreamAware.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/auth/hostbased/UserAuthHostBasedFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/session/forward/DynamicPortForwardingTracker.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/buffer/keys/OpenSSHCertPublicKeyParser.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/config/keys/writer/openssh/OpenSSHKeyPairResourceWriter.java

*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/file/virtualfs/VirtualFileSystemFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/util/functors/Int2IntFunction.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/file/nonefs/NoneFileSystem.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/shell/InvertedShellWrapper.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/server/auth/keyboard/DefaultKeyboardInteractiveAuthenticator.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/client/config/SshClientConfigFileReader.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/random/AbstractRandom.java

*

/opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/org/apache/sshd/common/io/AbstractIoServiceFactory.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/common/util/threads/ExecutorServiceProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/ServerAuthenticationManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/keys/ClientIdentityLoaderManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/ConnectionServiceRequestHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/auth/UserAuthInstance.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/ProcessShellFactory.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/keys/ClientIdentityLoader.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/digest/DigestUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/pubkey/SessionKeyPairIterator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoServiceFactoryFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/functors/Invoker.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/AsyncCommand.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/ExitCallback.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/future/CloseFuture.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/eddsa/EdDSASecurityProviderUtils.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/TimeoutIndicator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/subsystem/AbstractSubsystemClient.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/future/ConnectFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/mac/Mac.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/bouncycastle/BouncyCastleRandom.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/AsyncCommandOutputStreamAware.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/nio2/Nio2CompletionHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/SignalListener.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/future/OpenFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/file/FileSystemFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/NullPrintStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/forward/DirectTcpipFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/pubkey/PublickeyAuthenticator.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/common/AbstractAgentProxy.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/PrivateKeyEntryDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/keyboard/PromptEntry.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/agent/local/ChannelAgentForwarding.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/extension/KexExtensionHandlerManager.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/SignatureDSA.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/digest/DigestInformation.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/keyprovider/KeyIdentityProviderHolder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/functors/IOFunction.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/PendingWriteFuture.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/threads/ManagedExecutorServiceSupplier.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/gss/UserAuthGSS.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/NoCloseOutputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/pem/AbstractPEMResourceKeyPairParser.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/ChannelDirectTcpip.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/TtyFilterOutputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/security/SecurityProviderRegistrar.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-

jar/org/apache/sshd/common/config/keys/writer/openssh/OpenSSHKeyEncryptionContext.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/KexProposalOption.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/channel/ClientChannel.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/config/AllowTcpForwardingValue.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/x11/DefaultX11ForwardSupport.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/DefaultIoServiceFactoryFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/PublicKeyEntryDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/extension/parser/DelayedCompressionAlgorithms.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/hosts/DefaultConfigFileHostEntryResolver.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/simple/SimpleSessionClient.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/ChannelRequestHandler.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/channel/ChannelSession.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/command/AbstractDelegatingCommandFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/shell/TtyFilterInputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/cipher/CipherInformation.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/hosts/HostConfigEntryResolver.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/throttle/ChannelStreamWriter.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/compression/Compression.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/channel/BufferedIoOutputStream.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/pubkey/KeyPairIdentity.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/SignatureSkECDSA.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/AuthenticationIdentitiesProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/pem/PKCS8PEMResourceKeyPairParser.java

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/keyverifier/DelegatingServerKeyVerifier.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/compression/CompressionNone.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/signature/AbstractSecurityKeySignature.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/pubkey/StaticPublickeyAuthenticator.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/digest/Digest.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/kex/DHFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/forward/PortForwardingEventListener.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/ModifiableFileWatcher.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/der/DERParser.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/keyprovider/HostKeyCertificateProvider.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/loader/ssh2/Ssh2PublicKeyEntryDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/NamedFactory.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/auth/BasicCredentialsImpl.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/io/resource/URLResource.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/NamedResource.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/config/hosts/KnownHostEntry.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/io/IoServiceEventListener.java
*
 /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/session/ClientSessionImpl.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/config/keys/impl/ECDSAPublicKeyEntryDecoder.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/util/buffer/keys/DSSBufferPublicKeyParser.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/global/OpenSshHostKeysHandler.java
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/client/auth/hostbased/HostKeyIdentityProvider.java

No license file was found, but licenses were detected in source scan.

<!--

    Licensed to the Apache Software Foundation (ASF) under one or more

    contributor license agreements. See the NOTICE file distributed with

    this work for additional information regarding copyright ownership.

    The ASF licenses this file to You under the Apache License, Version 2.0

    (the "License"); you may not use this file except in compliance with

    the License. You may obtain a copy of the License at

      http://www.apache.org/licenses/LICENSE-2.0

    Unless required by applicable law or agreed to in writing, software

    distributed under the License is distributed on an "AS IS" BASIS,

    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

    See the License for the specific language governing permissions and

    limitations under the License.

  -->

Found in path(s):
* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-jar/META-INF/maven/org.apache.sshd/sshd-osgi/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the
* "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing,
* software distributed under the License is distributed on an
* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/
/**
* A special exception that can be thrown by the {@link PasswordAuthenticator} to indicate that the password requires
* changing

or is not string enough

*

* @see   <A HREF="https://tools.ietf.org/html/rfc4252#section-8">RFC-4252 section 8 -

*   SSH_MSG_USERAUTH_PASSWD_CHANGEREQ</A>

* @author Apache MINA SSHD Project

*/

Found in path(s):

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/server/auth/password/PasswordChangeRequiredException.java
No license file was found, but licenses were detected in source scan.

/*

* Licensed to the Apache Software Foundation (ASF) under one

* or more contributor license agreements. See the NOTICE file

* distributed with this work for additional information

* regarding copyright ownership. The ASF licenses this file

* to you under the Apache License, Version 2.0 (the

* "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing,

* software distributed under the License is distributed on an

* "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY

* KIND, either express or implied. See the License for the

* specific language governing permissions and limitations

* under the License.

*/

/**

* Special exception returned by {@link AbstractSession#getSession(org.apache.sshd.common.io.IoSession,
boolean)} to

* indicate

 that there is no currently attached SSH session

*

* @author Apache MINA SSHD Project

*/

Found in path(s):

* /opt/cola/permits/1612280018_1679588350.0689116/0/sshd-osgi-2-7-0-sources-1-
jar/org/apache/sshd/common/session/helpers/MissingAttachedSessionException.java

1.202 eclipse-jgit-ssh-apache 5.13.1.202206130422-r

1.202.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2019 Thomas Wolf <thomas.wolf@paranor.ch> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitServerKeyVerifier.java

* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/ServerKeyDatabase.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2020, Thomas Wolf <thomas.wolf@paranor.ch> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/AuthenticationCanceledException.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright (C) 2018, Thomas Wolf <thomas.wolf@paranor.ch> and others

*

* This program and the accompanying materials are made available under the

* terms of the Eclipse Distribution License v. 1.0 which is available at

* https://www.eclipse.org/org/documents/edl-v10.php.

*

* SPDX-License-Identifier: BSD-3-Clause

*/

Found in path(s):

* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/AuthenticationChallenge.java

* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/StatefulProxyConnector.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/HttpClientConnector.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/auth/AbstractAuthenticationHandler.java
*
 /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/GssApiWithMicAuthFactory.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitHostConfigEntry.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/IdentityPasswordProvider.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/auth/GssApiAuthentication.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitUserInteraction.java
*
 /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/SessionCloseListener.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/KeyCache.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitPasswordAuthentication.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/CachingKeyPairProvider.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/Socks5ClientConnector.java
*
 /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/ServerKeyLookup.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/AbstractClientProxyConnector.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/GssApiWithMicAuthentication.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/JGitKeyCache.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/GssApiMechanisms.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitPasswordAuthFactory.java
*
 /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/StatusLine.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/auth/BasicAuthentication.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/ProxyDataFactory.java

* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/DefaultProxyDataFactory.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/proxy/HttpParser.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/KeyPasswordProvider.java
*
 /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/KnownHostEntryReader.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/ProxyData.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/auth/AuthenticationHandler.java
No license file was found, but licenses were detected in source scan.

<title>Eclipse Distribution License - Version 1.0</title>
<p>Eclipse Distribution License - v 1.0</p>
<p>All rights reserved.</p>
<p>Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:
Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
Neither the name of the Eclipse Foundation, Inc. nor the names of its
this software without specific prior written permission.
<p>Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
to use, copy, modify, merge, publish, distribute, sublicense,
 and/or sell
furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

Found in path(s):
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/about.html
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018, 2020 Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitSshConfig.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/SshdSessionFactory.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/SshdSession.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/PasswordProviderWrapper.java
No license file was found, but licenses were detected in source scan.

<!--
 Copyright (C) 2018, Thomas Wolf <thomas.wolf@paranor.ch> and others

 This program and the accompanying materials are made available under the
 terms of the Eclipse Distribution License v. 1.0 which is available at
 http://www.eclipse.org/org/documents/edl-v10.php.

 SPDX-License-Identifier: BSD-3-Clause
-->

Found in path(s):
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/META-INF/maven/org.eclipse.jgit/org.eclipse.jgit.ssh.apache/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2018, 2021 Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/

Found in path(s):
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitPublicKeyAuthFactory.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitPublicKeyAuthentication.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitSshClient.java
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/JGitClientSession.java
*

/opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/internal/transport/sshd/OpenSshServerKeyDatabase.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2020 Thomas Wolf <thomas.wolf@paranor.ch> and others
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Distribution License v. 1.0 which is available at
* https://www.eclipse.org/org/documents/edl-v10.php.
*
* SPDX-License-Identifier: BSD-3-Clause
*/
```

Found in path(s):
* /opt/cola/permits/1612280040_1679588346.8530915/0/org-eclipse-jgit-ssh-apache-5-13-1-202206130422-r-sources-1-jar/org/eclipse/jgit/transport/sshd/SshdSessionFactoryBuilder.java

1.203 jjwt-api 0.10.7

1.203.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2014 jsonwebtoken.io
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*    http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/JwsHeader.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/PrematureJwtException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/JwtException.java
*

/opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/JwtHandlerAdapter.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/ClaimJwtException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/JwtBuilder.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/lang/Objects.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/ClaimsMutator.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/lang/Collections.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/lang/RuntimeEnvironment.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/lang/UnknownClassException.java
*
 /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/Claims.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/JwtHandler.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/lang/Assert.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/Header.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/UnsupportedJwtException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/SignatureAlgorithm.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/SigningKeyResolver.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/SignatureException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/lang/Classes.java
*
 /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/JwtParser.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/Jws.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/MalformedJwtException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/lang/InstantiationException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/Jwts.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/RequiredTypeException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/SigningKeyResolverAdapter.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/ExpiredJwtException.java
*

/opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/lang/Strings.java

* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/Jwt.java

No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2018 JWTK
 ~
 ~ Licensed under the Apache License, Version 2.0 (the "License");
 ~ you may not use this file except in compliance with the License.
 ~ You may obtain a copy of the License at
 ~
 ~   http://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS,
 ~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 ~ See the License for the specific language governing permissions and
 ~ limitations under the License.
 -->

Found in path(s):
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/META-INF/maven/io.jsonwebtoken/jjwt-api/pom.xml

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (C) 2015 jsonwebtoken.io
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *   http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

Found in path(s):
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/CompressionCodec.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-jar/io/jsonwebtoken/CompressionException.java
* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-

jar/io/jsonwebtoken/CompressionCodecResolver.java

*

 /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/InvalidClaimException.java

* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/MissingClaimException.java

* /opt/cola/permits/1612303964_1679589389.428236/0/jjwt-api-0-10-7-sources-1-
jar/io/jsonwebtoken/IncorrectClaimException.java

1.204 twilio 7.50.0

1.204.1 Available under license :

No license file was found, but licenses were detected in source scan.

public DomainCreator(final String domainName) {
public DomainCreator(final String pathAccountSid,
public DomainCreator setFriendlyName(final String friendlyName) {
public DomainCreator setVoiceUrl(final URI voiceUrl) {
public DomainCreator setVoiceUrl(final String voiceUrl) {
public DomainCreator setVoiceMethod(final HttpMethod voiceMethod) {
public DomainCreator setVoiceFallbackUrl(final URI voiceFallbackUrl) {
public DomainCreator setVoiceFallbackUrl(final String voiceFallbackUrl) {
public DomainCreator setVoiceFallbackMethod(final HttpMethod voiceFallbackMethod) {
public DomainCreator setVoiceStatusCallbackUrl(final URI voiceStatusCallbackUrl) {
public DomainCreator setVoiceStatusCallbackUrl(final String voiceStatusCallbackUrl) {
public DomainCreator setVoiceStatusCallbackMethod(final HttpMethod voiceStatusCallbackMethod) {
public DomainCreator setSipRegistration(final Boolean sipRegistration) {
public DomainCreator
 setEmergencyCallingEnabled(final Boolean emergencyCallingEnabled) {
public DomainCreator setSecure(final Boolean secure) {
public Domain create(final TwilioRestClient client) {

Found in path(s):
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/api/v2010/account/sip/DomainCreator.java
No license file was found, but licenses were detected in source scan.

<name>MIT License</name>
<bottom><i>Copyright &#169; 2019 Twilio, Inc. All Rights Reserved.</i></bottom>

Found in path(s):
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-jar/META-
INF/maven/com.twilio.sdk/twilio/pom.xml
No license file was found, but licenses were detected in source scan.

public DomainDeleter(final String pathSid) {
public DomainDeleter(final String pathAccountSid,

Found in path(s):
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/api/v2010/account/sip/DomainDeleter.java
No license file was found, but licenses were detected in source scan.

```
/**
  * Returns The SID of the Asset resource that is the parent of the asset
  * version.
  *
  * @return The SID of the Asset resource that is the parent of the asset version
  */
```

Found in path(s):
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/serverless/v1/service/asset/AssetVersion.java
No license file was found, but licenses were detected in source scan.

```
public DomainUpdater(final String pathSid) {
public DomainUpdater(final String pathAccountSid,
public DomainUpdater setFriendlyName(final String friendlyName) {
public DomainUpdater setVoiceFallbackMethod(final HttpMethod voiceFallbackMethod) {
public DomainUpdater setVoiceFallbackUrl(final URI voiceFallbackUrl) {
public DomainUpdater setVoiceFallbackUrl(final String voiceFallbackUrl) {
public DomainUpdater setVoiceMethod(final HttpMethod voiceMethod) {
public DomainUpdater setVoiceStatusCallbackMethod(final HttpMethod voiceStatusCallbackMethod) {
public DomainUpdater setVoiceStatusCallbackUrl(final URI voiceStatusCallbackUrl) {
public DomainUpdater setVoiceStatusCallbackUrl(final String voiceStatusCallbackUrl) {
public DomainUpdater setVoiceUrl(final URI voiceUrl) {
public DomainUpdater setVoiceUrl(final String voiceUrl) {
public DomainUpdater setSipRegistration(final Boolean sipRegistration) {
public DomainUpdater
 setDomainName(final String domainName) {
public DomainUpdater setEmergencyCallingEnabled(final Boolean emergencyCallingEnabled) {
public DomainUpdater setSecure(final Boolean secure) {
public Domain update(final TwilioRestClient client) {
```

Found in path(s):
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/api/v2010/account/sip/DomainUpdater.java
No license file was found, but licenses were detected in source scan.

```
public DomainReader() {
public DomainReader(final String pathAccountSid) {
```

Found in path(s):
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/api/v2010/account/sip/DomainReader.java

No license file was found, but licenses were detected in source scan.

```
/**
    * The URL from your application that will process task assignment events. See
    * [Handling Task Assignment
    * Callback](https://www.twilio.com/docs/taskrouter/handle-assignment-callbacks)
    * for more details..
    *
    * @param assignmentCallbackUrl The URL from your application that will process
    *                      task assignment events
    * @return this
    */
```

Found in path(s):
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/taskrouter/v1/workspace/WorkflowUpdater.java
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/taskrouter/v1/workspace/WorkflowCreator.java
No license file was found, but licenses were detected in source scan.

```
public DomainFetcher(final String pathSid) {
public DomainFetcher(final String pathAccountSid,
public Domain fetch(final TwilioRestClient client) {
```

Found in path(s):
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/api/v2010/account/sip/DomainFetcher.java
No license file was found, but licenses were detected in source scan.

```
/**
    * The HTTP method to use for calls to the `pre_webhook_url` and
    * `post_webhook_url` webhooks.  Can be: `POST` or `GET` and the default is
    * `POST`. See [Webhook Events](https://www.twilio.com/docs/chat/webhook-events)
    * for more details..
    *
    * @param webhookMethod The HTTP method  to use for both PRE and POST webhooks
    * @return this
    */
```

Found in path(s):
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/chat/v2/ServiceUpdater.java
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/chat/v1/ServiceUpdater.java
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/ipmessaging/v2/ServiceUpdater.java
* /opt/cola/permits/1612303956_1679589369.5335782/0/twilio-7-50-0-sources-1-
jar/com/twilio/rest/ipmessaging/v1/ServiceUpdater.java

1.205 jjwt-jackson 0.10.7

1.205.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2018 JWTK
 ~
 ~ Licensed under the Apache License, Version 2.0 (the "License");
 ~ you may not use this file except in compliance with the License.
 ~ You may obtain a copy of the License at
 ~
 ~   http://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS,
 ~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 ~ See the License for the specific language governing permissions and
 ~ limitations under the License.
 -->

Found in path(s):

* /opt/cola/permits/1612303979_1680514174.5970838/0/jjwt-jackson-0-10-7-sources-1-jar/META-INF/maven/io.jsonwebtoken/jjwt-jackson/pom.xml

1.206 jjwt-impl 0.10.7

1.206.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2018 JWTK
 ~
 ~ Licensed under the Apache License, Version 2.0 (the "License");
 ~ you may not use this file except in compliance with the License.
 ~ You may obtain a copy of the License at
 ~
 ~   http://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS,
 ~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 ~ See the License for the specific language governing permissions and
 ~ limitations under the License.
 -->

Found in path(s):

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/META-INF/maven/io.jsonwebtoken/jjwt-impl/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2015 jsonwebtoken.io
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSignatureValidator.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/EllipticCurveProvider.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/compression/GzipCompressionCodec.java
*
 /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/AndroidBase64Codec.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/TextCodecFactory.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/compression/CompressionCodecs.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/compression/DeflateCompressionCodec.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/DefaultTextCodecFactory.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSigner.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/compression/DefaultCompressionCodecResolver.java
*
 /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/compression/AbstractCompressionCodec.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2014 jsonwebtoken.io
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/Base64UrlCodec.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/crypto/MacValidator.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/DefaultJws.java
*
 /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/crypto/DefaultJwtSigner.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/TextCodec.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/DefaultHeader.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/crypto/SignatureProvider.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/crypto/DefaultJwtSignatureValidator.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/crypto/RsaSignatureValidator.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/crypto/JwtSignatureValidator.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/DefaultJwt.java
*
 /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/crypto/SignatureValidator.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-
jar/io/jsonwebtoken/impl/crypto/SignatureValidatorFactory.java
* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-

jar/io/jsonwebtoken/impl/Base64Codec.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/SignerFactory.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/MacProvider.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/DefaultSignerFactory.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/DefaultSignatureValidatorFactory.java

*
 /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/DefaultJwsHeader.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/DefaultJwtBuilder.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/RsaSigner.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/RsaProvider.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/DefaultClaims.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/AbstractTextCodec.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/MacSigner.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/JwtMap.java

*
 /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/JwtSigner.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/crypto/Signer.java

* /opt/cola/permits/1612303971_1679589386.3630981/0/jjwt-impl-0-10-7-sources-1-jar/io/jsonwebtoken/impl/DefaultJwtParser.java

1.207 spring-cloud-netflix-eureka-server 3.1.5
1.207.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1612359279_1679592305.7326663/0/spring-cloud-netflix-eureka-server-3-1-5-jar/META-

INF/maven/org.springframework.cloud/spring-cloud-netflix-eureka-server/pom.xml

No license file was found, but licenses were detected in source scan.

/*!
* Bootstrap v5.1.3 (https://getbootstrap.com/)
* Copyright 2011-2021 The Bootstrap Authors
* Copyright 2011-2021 Twitter, Inc.
* Licensed under MIT (https://github.com/twbs/bootstrap/blob/main/LICENSE)
*/

Found in path(s):
* /opt/cola/permits/1612359279_1679592305.7326663/0/spring-cloud-netflix-eureka-server-3-1-5-jar/static/eureka/css/wro.css

1.208 spring-web 5.3.26

1.208.1 Available under license :

Spring Framework 5.3.26
Copyright (c) 2002-2023 Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.

This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.

                         Apache License
                   Version 2.0, January 2004
                https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

===

SPRING FRAMEWORK 5.3.26 SUBCOMPONENTS:

Spring Framework 5.3.26 includes a number of subcomponents
with separate copyright notices and license terms. The product that
includes this file does not necessarily use all the open source
subcomponents referred to below. Your use of the source
code for these subcomponents is subject to the terms and
conditions of the following licenses.

>>> ASM 9.1 (org.ow2.asm:asm:9.1, org.ow2.asm:asm-commons:9.1):

Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms,
 with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2009, OW2 Consortium <https://www.ow2.org/>

>>> CGLIB 3.3 (cglib:cglib:3.3):

Per the LICENSE file in the CGLIB JAR distribution downloaded from
https://github.com/cglib/cglib/releases/download/RELEASE_3_3_0/cglib-3.3.0.jar,
CGLIB 3.3 is licensed under the Apache License, version 2.0, the text of which
is included above.

>>> Objenesis 3.2 (org.objenesis:objenesis:3.2):

Per the LICENSE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html, Objenesis 3.2 is licensed under the
Apache License, version 2.0, the text of which is included above.

Per
 the NOTICE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html and corresponding to section 4d of the
Apache License, Version 2.0, in this case for Objenesis:

Objenesis
Copyright 2006-2019 Joe Walnes, Henri Tremblay, Leonardo Mesquita

==

To the extent any open source components are licensed under the EPL and/or
other similar licenses that require the source code and/or modifications to
source code to be made available (as would be noted above), you may obtain a
copy of the source code corresponding to the binaries for such open source
components and modifications thereto, if any, (the "Source Files"), by
downloading the Source Files from https://spring.io/projects, Pivotal's website
at https://network.pivotal.io/open-source, or by sending a request, with your
name and address to: Pivotal Software, Inc., 875 Howard Street, 5th floor, San
Francisco, CA 94103, Attention:
 General Counsel. All such requests should
clearly specify: OPEN SOURCE FILES REQUEST, Attention General Counsel. Pivotal
can mail a copy of the Source Files to you on a CD or equivalent physical
medium.

This offer to obtain a copy of the Source Files is valid for three years from
the date you acquired this Software product. Alternatively, the Source Files
may accompany the Software.

1.209 spring-expression 5.3.26

1.209.1 Available under license :

Spring Framework 5.3.26

Copyright (c) 2002-2023 Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.

This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.

<div align="center">

Apache License

Version 2.0, January 2004

https://www.apache.org/licenses/

</div>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

===

SPRING FRAMEWORK 5.3.26 SUBCOMPONENTS:

Spring Framework 5.3.26 includes a number of subcomponents
with separate copyright notices and license terms. The product that
includes this file does not necessarily use all the open source
subcomponents referred to below. Your use of the source
code for these subcomponents is subject to the terms and
conditions of the following licenses.

>>> ASM 9.1 (org.ow2.asm:asm:9.1, org.ow2.asm:asm-commons:9.1):

Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms,

with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2009, OW2 Consortium <https://www.ow2.org/>

>>> CGLIB 3.3 (cglib:cglib:3.3):

Per the LICENSE file in the CGLIB JAR distribution downloaded from
https://github.com/cglib/cglib/releases/download/RELEASE_3_3_0/cglib-3.3.0.jar,
CGLIB 3.3 is licensed under the Apache License, version 2.0, the text of which
is included above.

>>> Objenesis 3.2 (org.objenesis:objenesis:3.2):

Per the LICENSE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html, Objenesis 3.2 is licensed under the
Apache License, version 2.0, the text of which is included above.

Per
 the NOTICE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html and corresponding to section 4d of the

Apache License, Version 2.0, in this case for Objenesis:

Objenesis

Copyright 2006-2019 Joe Walnes, Henri Tremblay, Leonardo Mesquita

===

To the extent any open source components are licensed under the EPL and/or
other similar licenses that require the source code and/or modifications to
source code to be made available (as would be noted above), you may obtain a
copy of the source code corresponding to the binaries for such open source
components and modifications thereto, if any, (the "Source Files"), by
downloading the Source Files from https://spring.io/projects, Pivotal's website
at https://network.pivotal.io/open-source, or by sending a request, with your
name and address to: Pivotal Software, Inc., 875 Howard Street, 5th floor, San
Francisco, CA 94103, Attention:
 General Counsel. All such requests should
clearly specify: OPEN SOURCE FILES REQUEST, Attention General Counsel. Pivotal
can mail a copy of the Source Files to you on a CD or equivalent physical
medium.

This offer to obtain a copy of the Source Files is valid for three years from
the date you acquired this Software product. Alternatively, the Source Files
may accompany the Software.

1.210 spring-beans 5.3.26
1.210.1 Available under license :

Spring Framework 5.3.26
Copyright (c) 2002-2023 Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.

This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.

                    Apache License
               Version 2.0, January 2004
             https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

===

SPRING FRAMEWORK 5.3.26 SUBCOMPONENTS:

Spring Framework 5.3.26 includes a number of subcomponents
with separate copyright notices and license terms. The product that
includes this file does not necessarily use all the open source
subcomponents referred to below. Your use of the source
code for these subcomponents is subject to the terms and
conditions of the following licenses.

>>> ASM 9.1 (org.ow2.asm:asm:9.1, org.ow2.asm:asm-commons:9.1):

Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms,
 with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE

LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2009, OW2 Consortium <https://www.ow2.org/>

>>> CGLIB 3.3 (cglib:cglib:3.3):

Per the LICENSE file in the CGLIB JAR distribution downloaded from
https://github.com/cglib/cglib/releases/download/RELEASE_3_3_0/cglib-3.3.0.jar,
CGLIB 3.3 is licensed under the Apache License, version 2.0, the text of which
is included above.

>>> Objenesis 3.2 (org.objenesis:objenesis:3.2):

Per the LICENSE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html, Objenesis 3.2 is licensed under the
Apache License, version 2.0, the text of which is included above.

Per
 the NOTICE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html and corresponding to section 4d of the
Apache License, Version 2.0, in this case for Objenesis:

Objenesis
Copyright 2006-2019 Joe Walnes, Henri Tremblay, Leonardo Mesquita

==

To the extent any open source components are licensed under the EPL and/or
other similar licenses that require the source code and/or modifications to
source code to be made available (as would be noted above), you may obtain a
copy of the source code corresponding to the binaries for such open source
components and modifications thereto, if any, (the "Source Files"), by
downloading the Source Files from https://spring.io/projects, Pivotal's website
at https://network.pivotal.io/open-source, or by sending a request, with your
name and address to: Pivotal Software, Inc., 875 Howard Street, 5th floor, San
Francisco, CA 94103, Attention:
 General Counsel. All such requests should
clearly specify: OPEN SOURCE FILES REQUEST, Attention General Counsel. Pivotal

can mail a copy of the Source Files to you on a CD or equivalent physical
medium.

This offer to obtain a copy of the Source Files is valid for three years from
the date you acquired this Software product. Alternatively, the Source Files
may accompany the Software.

1.211 spring-aop 5.3.26

1.211.1 Available under license :

Spring Framework 5.3.26
Copyright (c) 2002-2023 Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.

This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.

<div align="center">

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

</div>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

===

SPRING FRAMEWORK 5.3.26 SUBCOMPONENTS:

Spring Framework 5.3.26 includes a number of subcomponents
with separate copyright notices and license terms. The product that
includes this file does not necessarily use all the open source
subcomponents referred to below. Your use of the source

code for these subcomponents is subject to the terms and
conditions of the following licenses.

>>> ASM 9.1 (org.ow2.asm:asm:9.1, org.ow2.asm:asm-commons:9.1):

Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms,
 with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2009, OW2 Consortium <https://www.ow2.org/>

>>> CGLIB 3.3 (cglib:cglib:3.3):

Per the LICENSE file in the CGLIB JAR distribution downloaded from
https://github.com/cglib/cglib/releases/download/RELEASE_3_3_0/cglib-3.3.0.jar,
CGLIB 3.3 is licensed under the Apache License, version 2.0, the text of which
is included above.

>>> Objenesis 3.2 (org.objenesis:objenesis:3.2):

Per the LICENSE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html, Objenesis 3.2 is licensed under the
Apache License, version 2.0, the text of which is included above.

Per
 the NOTICE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html and corresponding to section 4d of the
Apache License, Version 2.0, in this case for Objenesis:

Objenesis
Copyright 2006-2019 Joe Walnes, Henri Tremblay, Leonardo Mesquita

==

To the extent any open source components are licensed under the EPL and/or
other similar licenses that require the source code and/or modifications to
source code to be made available (as would be noted above), you may obtain a
copy of the source code corresponding to the binaries for such open source
components and modifications thereto, if any, (the "Source Files"), by
downloading the Source Files from https://spring.io/projects, Pivotal's website
at https://network.pivotal.io/open-source, or by sending a request, with your
name and address to: Pivotal Software, Inc., 875 Howard Street, 5th floor, San
Francisco, CA 94103, Attention:
 General Counsel. All such requests should
clearly specify: OPEN SOURCE FILES REQUEST, Attention General Counsel. Pivotal
can mail a copy of the Source Files to you on a CD or equivalent physical
medium.

This offer to obtain a copy of the Source Files is valid for three years from
the date you acquired this Software product. Alternatively, the Source Files
may accompany the Software.

1.212 spring-tx 5.3.26
1.212.1 Available under license :
Spring Framework 5.3.26
Copyright (c) 2002-2023 Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.

This product may include a number of subcomponents with separate

copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.

<div align="center">

Apache License

Version 2.0, January 2004

https://www.apache.org/licenses/

</div>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute

copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

==

SPRING FRAMEWORK 5.3.26 SUBCOMPONENTS:

Spring Framework 5.3.26 includes a number of subcomponents
with separate copyright notices and license terms. The product that
includes this file does not necessarily use all the open source
subcomponents referred to below. Your use of the source
code for these subcomponents is subject to the terms and
conditions of the following licenses.

>>> ASM 9.1 (org.ow2.asm:asm:9.1, org.ow2.asm:asm-commons:9.1):

Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms,
 with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2009, OW2 Consortium <https://www.ow2.org/>

>>> CGLIB 3.3 (cglib:cglib:3.3):

Per the LICENSE file in the CGLIB JAR distribution downloaded from
https://github.com/cglib/cglib/releases/download/RELEASE_3_3_0/cglib-3.3.0.jar,
CGLIB 3.3 is licensed under the Apache License, version 2.0, the text of which
is included above.

>>> Objenesis 3.2 (org.objenesis:objenesis:3.2):

Per the LICENSE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html, Objenesis 3.2 is licensed under the
Apache License, version 2.0, the text of which is included above.

Per
 the NOTICE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html and corresponding to section 4d of the
Apache License, Version 2.0, in this case for Objenesis:

Objenesis
Copyright 2006-2019 Joe Walnes, Henri Tremblay, Leonardo Mesquita

===

To the extent any open source components are licensed under the EPL and/or
other similar licenses that require the source code and/or modifications to
source code to be made available (as would be noted above), you may obtain a
copy of the source code corresponding to the binaries for such open source
components and modifications thereto, if any, (the "Source Files"), by
downloading the Source Files from https://spring.io/projects, Pivotal's website
at https://network.pivotal.io/open-source, or by sending a request, with your
name and address to: Pivotal Software, Inc., 875 Howard Street, 5th floor, San
Francisco, CA 94103, Attention:
 General Counsel. All such requests should
clearly specify: OPEN SOURCE FILES REQUEST, Attention General Counsel. Pivotal
can mail a copy of the Source Files to you on a CD or equivalent physical
medium.

This offer to obtain a copy of the Source Files is valid for three years from
the date you acquired this Software product. Alternatively, the Source Files
may accompany the Software.

1.213 spring-context 5.3.26

1.213.1 Available under license :

Spring Framework 5.3.26
Copyright (c) 2002-2023 Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.

This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.

                    Apache License
                Version 2.0, January 2004
              https://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
  whether in tort (including negligence), contract, or otherwise,
  unless required by applicable law (such as deliberate and grossly
  negligent acts) or agreed to in writing, shall any Contributor be
  liable to You for damages, including any direct,
indirect, special,
  incidental, or consequential damages of any character arising as a
  result of this License or out of the use or inability to use the
  Work (including but not limited to damages for loss of goodwill,
  work stoppage, computer failure or malfunction, or any and all
  other commercial damages or losses), even if such Contributor
  has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
  the Work or Derivative Works thereof, You may choose to offer,
  and charge a fee for, acceptance of support, warranty, indemnity,
  or other liability obligations and/or rights consistent with this
  License. However, in accepting such obligations, You may act only
  on Your own behalf and on Your sole responsibility, not on behalf
  of any other Contributor, and only if You agree to indemnify,
  defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
  of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

  To apply the Apache License to your work, attach the following
  boilerplate notice, with the fields enclosed by brackets "[]"
  replaced with your own identifying information. (Don't include
  the brackets!) The text should be enclosed in the appropriate
  comment syntax for the file format. We also recommend that a
  file or class name and description of purpose be included on the
  same "printed page" as the copyright notice for easier
  identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and
limitations under the License.

==

SPRING FRAMEWORK 5.3.26 SUBCOMPONENTS:

Spring Framework 5.3.26 includes a number of subcomponents
with separate copyright notices and license terms. The product that
includes this file does not necessarily use all the open source
subcomponents referred to below. Your use of the source
code for these subcomponents is subject to the terms and
conditions of the following licenses.

>>> ASM 9.1 (org.ow2.asm:asm:9.1, org.ow2.asm:asm-commons:9.1):

Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms,
 with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2009, OW2 Consortium <https://www.ow2.org/>

>>> CGLIB 3.3 (cglib:cglib:3.3):

Per the LICENSE file in the CGLIB JAR distribution downloaded from
https://github.com/cglib/cglib/releases/download/RELEASE_3_3_0/cglib-3.3.0.jar,
CGLIB 3.3 is licensed under the Apache License, version 2.0, the text of which
is included above.

>>> Objenesis 3.2 (org.objenesis:objenesis:3.2):

Per the LICENSE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html, Objenesis 3.2 is licensed under the
Apache License, version 2.0, the text of which is included above.

Per
 the NOTICE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html and corresponding to section 4d of the
Apache License, Version 2.0, in this case for Objenesis:

Objenesis
Copyright 2006-2019 Joe Walnes, Henri Tremblay, Leonardo Mesquita

==

To the extent any open source components are licensed under the EPL and/or
other similar licenses that require the source code and/or modifications to
source code to be made available (as would be noted above), you may obtain a
copy of the source code corresponding to the binaries for such open source
components and modifications thereto, if any, (the "Source Files"), by
downloading the Source Files from https://spring.io/projects, Pivotal's website
at https://network.pivotal.io/open-source, or by sending a request, with your
name and address to: Pivotal Software, Inc., 875 Howard Street, 5th floor, San
Francisco, CA 94103, Attention:
 General Counsel. All such requests should
clearly specify: OPEN SOURCE FILES REQUEST, Attention General Counsel. Pivotal
can mail a copy of the Source Files to you on a CD or equivalent physical
medium.

This offer to obtain a copy of the Source Files is valid for three years from
the date you acquired this Software product. Alternatively, the Source Files
may accompany the Software.

1.214 spring-security-jwt 5.1.5

1.214.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
    Work or Derivative Works thereof in any medium, with or without
    modifications, and in Source or Object form, provided that You
    meet the following conditions:

    (a) You must give any other recipients of the Work or
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding
those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.215 gson 1.8.3

1.215.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
<!--
////////////////////////////////////////////////////////////////////////////////////////////////////
//
// © 2011-2022 Telenav, Inc.
// Licensed under Apache License, Version 2.0
//
////////////////////////////////////////////////////////////////////////////////////////////////////
-->
```

Found in path(s):
* /opt/cola/permits/1616263836_1680504051.6068473/0/kivakit-serialization-gson-1-8-3-jar-zip/kivakit-
serialization-gson-1-8-3-jar/META-INF/maven/com.telenav.kivakit/kivakit-serialization-gson/pom.xml

1.216 spring-web-mvc 5.3.26

1.216.1 Available under license :

Spring Framework 5.3.26

Copyright (c) 2002-2023 Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.

This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.

<div align="center">

Apache License

Version 2.0, January 2004

https://www.apache.org/licenses/

</div>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

===

SPRING FRAMEWORK 5.3.26 SUBCOMPONENTS:

Spring Framework 5.3.26 includes a number of subcomponents
with separate copyright notices and license terms. The product that
includes this file does not necessarily use all the open source
subcomponents referred to below. Your use of the source
code for these subcomponents is subject to the terms and
conditions of the following licenses.

>>> ASM 9.1 (org.ow2.asm:asm:9.1, org.ow2.asm:asm-commons:9.1):

Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms,

with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2009, OW2 Consortium <https://www.ow2.org/>

>>> CGLIB 3.3 (cglib:cglib:3.3):

Per the LICENSE file in the CGLIB JAR distribution downloaded from
https://github.com/cglib/cglib/releases/download/RELEASE_3_3_0/cglib-3.3.0.jar,
CGLIB 3.3 is licensed under the Apache License, version 2.0, the text of which
is included above.

>>> Objenesis 3.2 (org.objenesis:objenesis:3.2):

Per the LICENSE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html, Objenesis 3.2 is licensed under the
Apache License, version 2.0, the text of which is included above.

Per
 the NOTICE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html and corresponding to section 4d of the

Apache License, Version 2.0, in this case for Objenesis:

Objenesis

Copyright 2006-2019 Joe Walnes, Henri Tremblay, Leonardo Mesquita

==

To the extent any open source components are licensed under the EPL and/or

other similar licenses that require the source code and/or modifications to

source code to be made available (as would be noted above), you may obtain a

copy of the source code corresponding to the binaries for such open source

components and modifications thereto, if any, (the "Source Files"), by

downloading the Source Files from https://spring.io/projects, Pivotal's website

at https://network.pivotal.io/open-source, or by sending a request, with your

name and address to: Pivotal Software, Inc., 875 Howard Street, 5th floor, San

Francisco, CA 94103, Attention:

 General Counsel. All such requests should

clearly specify: OPEN SOURCE FILES REQUEST, Attention General Counsel. Pivotal

can mail a copy of the Source Files to you on a CD or equivalent physical

medium.

This offer to obtain a copy of the Source Files is valid for three years from

the date you acquired this Software product. Alternatively, the Source Files

may accompany the Software.

1.217 json-smart 2.4.10

1.217.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

*   Copyright 2011-2014 JSON-SMART authors

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/writer/DefaultMapper.java
No license file was found, but licenses were detected in source scan.

/*
*   Copyright 2011-2023 JSON-SMART authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/JSONUtil.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/writer/ArraysMapper.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/parser/JSONParserBase.java
*
 /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/writer/CompessorMapper.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/writer/FakeMapper.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/JSONStyle.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/writer/JsonReader.java
*
 /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-
jar/net/minidev/json/parser/ParseException.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/writer/BeansMapper.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONAware.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONStreamAware.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/writer/DefaultMapperOrdered.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONStreamAwareEx.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONValue.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/writer/CollectionMapper.java

*
 /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserReader.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONObject.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParser.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONAwareEx.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserString.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONArray.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserInputStream.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/parser/JSONParserMemory.java

*
 /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JStylerObj.java

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/net/minidev/json/JSONNavi.java

No license file was found, but licenses were detected in source scan.

<!--
Copyright 2011-2023 JSON-SMART authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

-->

Found in path(s):

* /opt/cola/permits/1619377352_1680083027.7224898/0/json-smart-2-4-10-sources-jar/META-INF/maven/net.minidev/json-smart/pom.xml

1.218 accessors-smart 2.4.9

1.218.1 Available under license :

No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0

Bnd-LastModified: 1678198115874

Build-Jdk: 11.0.18

Built-By: uriel

Bundle-Description: Java reflect give poor performance on getter sette

r an constructor calls, accessors-smart use ASM to speed up those cal

ls.

Bundle-DocURL: https://urielch.github.io/

Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt

Bundle-ManifestVersion: 2

Bundle-Name: accessors-smart

Bundle-SymbolicName: net.minidev.accessors-smart

Bundle-Vendor: Chemouni Uriel

Bundle-Version: 2.4.9

Created-By: Apache Maven Bundle Plugin

Export-Package: net.minidev.asm;version="2.4.9";uses:="org.objectweb.a

sm",net.minidev.asm.ex;version="2.4.9"

Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.e

x;version="[2.4,3)"

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1619377400_1680083041.0246942/0/accessors-smart-2-4-9-jar/META-INF/MANIFEST.MF

No license file was found, but licenses were detected in source scan.

<!--

Copyright 2011-2023 JSON-SMART authors

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->

Found in path(s):
* /opt/cola/permits/1619377400_1680083041.0246942/0/accessors-smart-2-4-9-jar/META-
INF/maven/net.minidev/accessors-smart/pom.xml

1.219 micrometer-core 1.9.9
1.219.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021 VMware, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingServerCall.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/instrument/binder/grpc/package-info.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/instrument/binder/mongodb/DefaultMongoConnectionPoolTagsProvider.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingClientCall.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/instrument/binder/cache/CaffeineStatsCounter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingClientInterceptor.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingServerInterceptor.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingServerCallListener.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/mongodb/MongoCommandTagsProvider.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/grpc/AbstractMetricCollectingInterceptor.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingClientCallListener.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/mongodb/DefaultMongoCommandTagsProvider.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmInfoMetrics.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2018 VMware, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/logging/LoggingMeterRegistry.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/ipc/http/HttpSender.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/MultiGauge.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/push/PushRegistryConfig.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/NamedThreadFactory.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-

jar/io/micrometer/core/ipc/http/HttpUrlConnectionSender.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/push/PushMeterRegistry.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/ipc/http/HttpStatusClass.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/StrongReferenceGaugeFunction.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/ipc/http/OkHttpSender.java

*
/opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/logging/LoggingRegistryConfig.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaConsumerMetrics.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2022 VMware, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/validate/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/db/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jpa/package-info.java

*
/opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/kafka/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jetty/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/mongodb/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/okhttp3/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/aop/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/commonspool2/package-info.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/logging/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/ipc/http/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/lang/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/annotation/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jersey/server/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/package-info.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/tomcat/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/system/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/hystrix/package-info.java
No license file was found, but licenses were detected in source scan.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/META-INF/native-image/io.micrometer/micrometer-core/native-image.properties
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012-2019 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0

```
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/instrument/internal/OnlyOnceLoggingDenyMeterFilter.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2019 VMware, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* Copyright 2017 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable
 law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/util/internal/logging/LocationAwareSlf4JLogger.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2019 VMware, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable
 law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/util/internal/logging/InternalLoggerFactory.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/util/internal/logging/InternalLogLevel.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/util/internal/logging/JdkLoggerFactory.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/util/internal/logging/Slf4JLogger.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/util/internal/logging/AbstractInternalLogger.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/util/internal/logging/Slf4JLoggerFactory.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2019 VMware, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jetty/OnCompletionAsyncListener.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/MicrometerHttpRequestExecutor.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/TimedRunnable.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/TimedScheduledExecutorService.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/PoolingHttpClientConnectionManagerMetricsBinder.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyConnectionMetrics.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyServerThreadPoolMetrics.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/Timer.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/mongodb/MongoMetricsCommandListener.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/mongodb/MongoMetricsConnectionPoolListener.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/TimedCallable.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmMemory.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/util/internal/logging/WarnThenDebugLogger.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-

jar/io/micrometer/core/instrument/binder/jetty/TimedHandler.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/instrument/binder/jetty/InstrumentedQueuedThreadPool.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2019 VMware, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable
 law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
/**
* Copyright (c) 2004-2011 QOS.ch
* All rights reserved.
*
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:
*

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/util/internal/logging/FormattingTuple.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/util/internal/logging/MessageFormatter.java
No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/lang/NonNullApi.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/lang/NonNull.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/lang/NonNullFields.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/lang/Nullable.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2020 VMware, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaClientMetrics.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/cache/HazelcastIMapAdapter.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpConnectionPoolMetrics.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientMetrics.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/MeterRegistryConfigValidator.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/HttpContextUtils.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jetty/JettySslHandshakeMetrics.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepTuple2.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/MicrometerHttpClientInterceptor.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmHeapPressureMetrics.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaStreamsMetrics.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/http/HttpServletRequestTagsProvider.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/db/JooqExecuteListener.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-

jar/io/micrometer/core/instrument/config/validate/DurationValidator.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/validate/ValidationException.java

*

 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/validate/PropertyValidator.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/http/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/mongodb/MongoConnectionPoolTagsProvider.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/validate/Validated.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/AbstractTimerBuilder.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/http/HttpRequestTags.java

*

 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/validate/InvalidReason.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/commonspool2/CommonsObjectPool2Metrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/DefaultUriMapper.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/http/Outcome.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepValue.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/http/DefaultHttpServletRequestTagsProvider.java

*

 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientTags.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowSum.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientTagsProvider.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/CumulativeHistogramLongTaskTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/db/MetricsDSLContext.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jpa/HibernateQueryMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/FixedBoundaryVictoriaMetricsHistogram.java

No license file was found, but licenses were detected in source scan.

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/DiskSpaceMetrics.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/Measurement.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/MockClock.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/AbstractCompositeMeter.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardGauge.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/Metrics.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/StringEscapeUtils.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/Counter.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/ClassLoaderMetrics.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeFunctionCounter.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/push/package-info.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardMeterRegistry.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/PercentileHistogramBuckets.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/noop/NoopMeter.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-

jar/io/micrometer/core/instrument/binder/cache/CacheMeterBinder.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmMemoryMetrics.java

*

 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/noop/NoopFunctionTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/cache/JCacheMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisher.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/MeterRegistryConfig.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardDistributionSummary.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowPercentileHistogram.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/IOUtils.java

*

 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/DefaultMeter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyTagsProvider.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jersey/server/AnnotationFinder.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/pause/NoPauseDetector.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/LongTaskTimer.java

*

 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/Tag.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpMetricsEventListener.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardFunctionTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/db/PostgreSQLDatabaseMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeMeter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyTags.java

*

/opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/cache/EhCache2Metrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/annotation/TimedSet.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/cache/GuavaCacheMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardRate.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/noop/NoopCounter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jpa/HibernateMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeDistributionSummary.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeGauge.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisherThreadPool.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionCounter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeMeterRegistry.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepFunctionCounter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/system/DiskSpaceMetrics.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowMax.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/simple/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmThreadMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyStatisticsMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/pause/ClockDriftPauseDetector.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/HistogramGauges.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-

jar/io/micrometer/core/instrument/MeterRegistry.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/simple/SimpleMeterRegistry.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/search/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeTimeGauge.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/noop/NoopGauge.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/InvalidConfigurationException.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/noop/NoopFunctionCounter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/search/RequiredSearch.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/Mergeable.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowFixedBoundaryHistogram.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/search/Search.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepCounter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/DistributionStatisticConfig.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmGcMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/Tags.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/Gauge.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/DoubleFormat.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/HistogramSnapshot.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/system/ProcessorMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeDistributionSummary.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/cumulative/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/logging/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepMeterRegistry.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/annotation/Counted.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepDouble.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/ValueAtPercentile.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/noop/package-info.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/StringUtils.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/FunctionCounter.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/AbstractTimer.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/cache/package-info.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/TimedExecutor.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeCounter.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepDistributionSummary.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeCustomMeter.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/MissingRequiredConfigurationException.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/HierarchicalNameMapper.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepLong.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/package-info.java
*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardFunctionCounter.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeCounter.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jersey/server/DefaultJerseyTagsProvider.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/noop/NoopTimer.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/pause/PauseDetector.java
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-

jar/io/micrometer/core/instrument/config/NamingConvention.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/hystrix/HystrixMetricsBinder.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/Meter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/AbstractMeter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/HistogramSupport.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/AbstractPartition.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/MeterFilter.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/DefaultLongTaskTimer.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/logging/LogbackMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jersey/server/TimedFinder.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/system/FileDescriptorMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/system/UptimeMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/aop/CountedAspect.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardCounter.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/MeterFilterReply.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/search/MeterNotFoundException.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/simple/CountingMode.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardClock.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisherCommand.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/Clock.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/ImmutableTag.java

*

/opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeFunctionTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/TimeUtils.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/cache/HazelcastCacheMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/ExecutorServiceMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardConfig.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepMeasurement.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/tomcat/TomcatMetrics.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/MeterEquivalence.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/MeterBinder.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/config/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/NoopHistogram.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepFunctionTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/aop/TimedAspect.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepRegistryConfig.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/AbstractDistributionSummary.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/TimeGauge.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/AbstractTimeWindowHistogram.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/db/DatabaseTableMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/annotation/Incubating.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/DefaultGauge.java

*
 /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/noop/NoopLongTaskTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-

jar/io/micrometer/core/instrument/noop/NoopTimeGauge.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/BaseUnits.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeLongTaskTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/Histogram.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/logging/Log4j2Metrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/TimedExecutorService.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmCompilationMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/pause/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/util/MeterPartition.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/Statistic.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/cache/CaffeineCacheMetrics.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/simple/SimpleConfig.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/annotation/Timed.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/distribution/CountAtBucket.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/noop/NoopDistributionSummary.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/step/StepTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/composite/CompositeTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/internal/package-info.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/FunctionTimer.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jersey/server/MetricsApplicationEventListener.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/binder/jersey/server/MetricsRequestEventListener.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/instrument/DistributionSummary.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2019 VMware, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/*
 * Copyright 2013 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 *   https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable
 law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
```

Found in path(s):
* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-
jar/io/micrometer/core/util/internal/logging/package-info.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2019 VMware, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
```

Found in path(s):

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-

jar/io/micrometer/core/util/internal/logging/InternalLogger.java

* /opt/cola/permits/1619377398_1681401031.5148761/0/micrometer-core-1-9-9-sources-jar/io/micrometer/core/util/internal/logging/JdkLogger.java

1.220 netty-transport-classes-epoll 4.1.90.Final

1.220.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2014 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 *   https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

    */
```

Found in path(s):

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2012 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 *   https://www.apache.org/licenses/LICENSE-2.0
 *
```

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2021 The Netty Project
 ~
 ~ The Netty Project licenses this file to you under the Apache License,
 ~ version 2.0 (the "License"); you may not use this file except in compliance
 ~ with the License. You may obtain a copy of the License at:
 ~
 ~   https://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 ~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 ~ License for the specific language governing permissions and limitations
 ~ under the License.
 -->

Found in path(s):
* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-transport-classes-epoll/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollDomainDatagramChannel.java

*
 /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/SegmentedDatagramPacket.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java

No license file was found, but licenses were detected in source scan.

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

Found in path(s):

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/META-INF/native-image/io.netty/netty-transport-classes-epoll/native-image.properties

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/Native.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
*
 /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-

jar/io/netty/channel/epoll/EpollSocketChannel.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/package-info.java

*

 /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/Epoll.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
/**
  * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
  * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
  * Allowing them being read would mean anyone with access to the channel could get them.

 */
/**
  * Set the {@code TCP_QUICKACK} option on the socket.
  * See TCP_QUICKACK
  * for more details.
  */

Found in path(s):
* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java

*
 /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollMode.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java

*
 /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

* /opt/cola/permits/1620675266_1680116307.60289/0/netty-transport-classes-epoll-4-1-90-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java

1.221 netty-codec-socks 4.1.90.Final

1.221.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2013 The Netty Project

*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
*
 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
*
 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-

jar/io/netty/handler/codec/socks/SocksCmdStatus.java
No license file was found, but licenses were detected in source scan.

<!--
~ Copyright 2012 The Netty Project
~
~ The Netty Project licenses this file to you under the Apache License,
~ version 2.0 (the "License"); you may not use this file except in compliance
~ with the License. You may obtain a copy of the License at:
~
~   https://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.
-->

Found in path(s):
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/META-
INF/maven/io.netty/netty-codec-socks/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socksx/v4/package-info.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socksx/package-info.java
*
 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java

*
 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java

*
 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
*
 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java
*
 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java
*

/opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/package-info.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
*
 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
*
 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksResponse.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponse.java
*
 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-

jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/package-info.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java

*

 /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksCommonUtils.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksRequest.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java

* /opt/cola/permits/1620675433_1680116262.0139341/0/netty-codec-socks-4-1-90-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java

1.222 netty-resolver 4.1.90.Final

1.222.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2021 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/HostsFileEntriesProvider.java

No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2014 The Netty Project
 ~
 ~ The Netty Project licenses this file to you under the Apache License,
 ~ version 2.0 (the "License"); you may not use this file except in compliance
 ~ with the License. You may obtain a copy of the License at:
 ~
 ~   https://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 ~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 ~ License for the specific language governing permissions and limitations
 ~ under the License.
 -->

Found in path(s):
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml
No license file was found, but licenses were detected in source scan.

/*
 * Copyright 2015 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 *   https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */

Found in path(s):
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
*

/opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/InetNameResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/DefaultNameResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/HostsFileParser.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/HostsFileEntries.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2014 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

*

 /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/package-info.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/NameResolver.java

* /opt/cola/permits/1620675276_1680234965.994694/0/netty-resolver-4-1-90-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

1.223 netty-handler-proxy 4.1.90.Final

1.223.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2014 The Netty Project
 ~
 ~ The Netty Project licenses this file to you under the Apache License,
 ~ version 2.0 (the "License"); you may not use this file except in compliance
 ~ with the License. You may obtain a copy of the License at:
 ~
 ~   https://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 ~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 ~ License for the specific language governing permissions and limitations
 ~ under the License.
 -->

Found in path(s):
* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml
No license file was found, but licenses were detected in source scan.

/*
 * Copyright 2014 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 *   https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */

Found in path(s):
* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
*
 /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java

* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/package-info.java

* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java

* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java

* /opt/cola/permits/1620675501_1680234968.1694567/0/netty-handler-proxy-4-1-90-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java

1.224 netty-handler 4.1.90.Final

1.224.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2022 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License, version

* 2.0 (the "License"); you may not use this file except in compliance with the

* License. You may obtain a copy of the License at:

*

* https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations under

* the License.

*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateCompressionConfig.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright 2014 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

* https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
*

/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-

jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslProvider.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslContext.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslUtils.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java

*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/PemReader.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java

*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SniHandler.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java

*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSsl.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-

jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java

*

 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/package-info.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2011 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
// Try the OpenJDK's proprietary implementation.

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*

* The Netty Project licenses this file to you under the Apache License, version
* 2.0 (the "License"); you may not use this file except in compliance with the
* License. You may obtain a copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-
jar/io/netty/handler/flow/FlowControlHandler.java
No license file was found, but licenses were detected in source scan.

<!--
  ~ Copyright 2012 The Netty Project
  ~
  ~ The Netty Project licenses this file to you under the Apache License,
  ~ version 2.0 (the "License"); you may not use this file except in compliance
  ~ with the License. You may obtain a copy of the License at:
  ~
  ~   https://www.apache.org/licenses/LICENSE-2.0
  ~
  ~ Unless required by applicable law or agreed to in writing, software
  ~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
  ~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
  ~ License for the specific language governing permissions and limitations
  ~ under the License.
-->

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/META-
INF/maven/io.netty/netty-handler/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/package-info.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-

jar/io/netty/handler/stream/ChunkedNioStream.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/logging/LogLevel.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/stream/package-info.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/timeout/IdleState.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2022 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/BouncyCastlePemReader.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2019 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.

*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/address/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
*

/opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2023 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/StacklessSSLHandshakeException.java
No license file was found, but licenses were detected in source scan.

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/META-INF/native-image/io.netty/netty-handler/native-image.properties
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2023 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations

* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/pcap/State.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2020 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/pcap/TCPPacket.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2018 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
No license file was found, but licenses were detected in source scan.

* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java
*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java

*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java

*
 /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslProtocols.java

* /opt/cola/permits/1620675508_1680116263.024557/0/netty-handler-4-1-90-final-sources-jar/io/netty/handler/ssl/SslContextOption.java

1.225 netty-codec-http 4.1.90.Final

1.225.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2019 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java

---

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpHeaderDateFormat.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/DefaultHttpResponse.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpContentEncoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/DefaultHttpObject.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpVersion.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpResponseEncoder.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/DefaultHttpDataFactory.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpContentDecompressor.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/QueryStringEncoder.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpResponseStatus.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-

jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/DefaultHttpRequest.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpRequestEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/LastHttpContent.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/HttpData.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpRequest.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpResponse.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpObjectAggregator.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdySession.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/Attribute.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/package-info.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpRequestDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpClientCodec.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/Cookie.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/DiskAttribute.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpResponseDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpObject.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpMessage.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/FileUpload.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/CookieDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpContent.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/QueryStringDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/package-info.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/MixedAttribute.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/package-info.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/DefaultHttpContent.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaders.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/DefaultHttpMessage.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspVersions.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpMethod.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpServerCodec.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpObjectDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpObjectEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java

*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspMethods.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/DefaultCookie.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-

jar/io/netty/handler/codec/http/HttpContentDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpHeaders.java

*

 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/package-info.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpContentCompressor.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/DefaultLastHttpContent.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java

No license file was found, but licenses were detected in source scan.

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/META-INF/native-image/io.netty/netty-codec-http/native-image.properties

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License, version
* 2.0 (the "License"); you may not use this file except in compliance with the
* License. You may obtain a copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cors/CorsHandler.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cors/CorsConfig.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java
No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2012 The Netty Project
 ~
 ~ The Netty Project licenses this file to you under the Apache License,
 ~ version 2.0 (the "License"); you may not use this file except in compliance
 ~ with the License. You may obtain a copy of the License at:
 ~
 ~   https://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 ~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 ~ License for the specific language governing permissions and limitations
 ~ under the License.
-->

Found in path(s):

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-codec-http/pom.xml

No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2014 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 *   https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */
```

Found in path(s):

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpHeaderValues.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameClientExtensionHandshaker.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateDecoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionDecoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpMessageUtil.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpHeaderNames.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/HttpStatusClass.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.
java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/HttpChunkedInput.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
*

/opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java

*

/opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java

*

/opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/rtsp/RtspDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cookie/CookieUtil.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software

Found in path(s):

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/HttpMessageDecoderResult.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/CompressionEncoderFactory.java

No license file was found, but licenses were detected in source scan.

FOR ANY CLAIM,
* DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
* OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8Validator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2022 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractMixedHttpData.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/TooLongHttpHeaderException.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpHeaderValidationUtil.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/TooLongHttpContentException.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/TooLongHttpLineException.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License, version 2.0 (the
* "License"); you may not use this file except in compliance with the License. You may obtain a
* copy of the License at:

```
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
```

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/HttpClientUpgradeHandler.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/HttpServerUpgradeHandler.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License, version
* 2.0 (the "License"); you may not use this file except in compliance with the
* License. You may obtain a copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations under
* the License.
*/
```

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-
jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2017 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
```

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
*
 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java

*

 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java

*

 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java

*

 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/FullHttpResponse.java

*

/opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/FullHttpMessage.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameDecoder.java

*

 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java

*

 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2020 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakeException.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakeException.java

*

 /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/multipart/DeleteFileOnExitHook.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2019 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

// (BSD License: https://www.opensource.org/licenses/bsd-license)

// All rights reserved.

// Redistribution and use in source and binary forms, with or

// * Redistributions of source code must retain the above

// copyright notice, this list of conditions and the

// following disclaimer.

// * Redistributions

 in binary form must reproduce the above

// following disclaimer in the documentation and/or other

// * Neither the name of the Webbit nor the names of

Found in path(s):

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-

jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2012 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

// (BSD License: https://www.opensource.org/licenses/bsd-license)

// All rights reserved.

// Redistribution and use in source and binary forms, with or

// * Redistributions of source code must retain the above

// copyright notice, this list of conditions and the

// following disclaimer.

// * Redistributions

 in binary form must reproduce the above

// following disclaimer in the documentation and/or other

// * Neither the name of the Webbit nor the names of

Found in path(s):

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameEncoder.java

* /opt/cola/permits/1620675358_1680234971.5069332/0/netty-codec-http-4-1-90-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java

1.226 netty-transport 4.1.90.Final

1.226.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2020 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/StacklessClosedChannelException.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/DuplexChannelConfig.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
subtypes:
*
* {@link
 ChannelInboundHandler} to handle inbound I/O events, and
* {@link ChannelOutboundHandler} to handle outbound I/O operations.
*
* </p>
* <p>

* Alternatively, the following adapter classes are provided for your convenience:
*
* {@link ChannelInboundHandlerAdapter} to handle inbound I/O events,
* {@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and
* {@link ChannelDuplexHandler} to handle both inbound and outbound events
*
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*   // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
*
*   private boolean loggedIn;
*
*   {@code @Override}
*   public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*   if (message instanceof LoginMessage) {
*   authenticate((LoginMessage) message);
*   loggedIn = true;
*   } else (message instanceof GetDataMessage) {
*   if (loggedIn) {
*   ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*   } else {
*   fail();
*   }
*
 }
*   }

```
*    ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
```

```
*     }
*     ...
* }
* </pre>
* Now that the
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/
```

Found in path(s):

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-

jar/io/netty/channel/ChannelHandler.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/oio/OioByteStreamChannel.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/internal/ChannelUtils.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/bootstrap/FailedChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/internal/package-info.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java

*

 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/PendingBytesTracker.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/DuplexChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java

*

 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/SelectStrategyFactory.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-

jar/io/netty/bootstrap/AbstractBootstrapConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java

*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/SelectStrategy.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java

*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelId.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultChannelId.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2012 The Netty Project
 ~

~ The Netty Project licenses this file to you under the Apache License,

~ version 2.0 (the "License"); you may not use this file except in compliance

~ with the License. You may obtain a copy of the License at:

~

~   https://www.apache.org/licenses/LICENSE-2.0

~

~ Unless required by applicable law or agreed to in writing, software

~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

~ License for the specific language governing permissions and limitations

~ under the License.

-->

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-transport/pom.xml
No license file was found, but licenses were detected in source scan.

/*

* Copyright 2015 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java

*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/pool/package-info.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultChannelHandlerContext.java

No license file was found, but licenses were detected in source scan.

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/META-INF/native-image/io.netty/netty-transport/native-image.properties

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/bootstrap/package-info.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ChannelConfig.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/bootstrap/ServerBootstrap.java
*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ChannelPipeline.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/FailedChannelFuture.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/nio/package-info.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/oio/AbstractOioChannel.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/package-info.java
*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/VoidChannelPromise.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/CompleteChannelFuture.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-

jar/io/netty/channel/ChannelInboundHandler.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelFuture.java

*

 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/SucceededChannelFuture.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelMetadata.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java

*

 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelFutureListener.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/AbstractChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/bootstrap/Bootstrap.java

*

 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/package-info.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelException.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultChannelPromise.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java

*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ServerChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/embedded/package-info.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/oio/package-info.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/local/LocalServerChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java

*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/EventLoopGroup.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/local/LocalChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelPromise.java

*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelOption.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultChannelConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/AbstractServerChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelPipelineException.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-

jar/io/netty/channel/socket/oio/package-info.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java

*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/EventLoopException.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/package-info.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/EventLoop.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java

*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/CombinedIterator.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/Channel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/nio/NioEventLoop.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/SocketChannel.java

*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/DatagramChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/DatagramPacket.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelHandlerContext.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/local/LocalAddress.java

*

 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultFileRegion.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/FileRegion.java

*

 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/nio/NioTask.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/DefaultEventLoop.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/local/package-info.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/nio/package-info.java

*

 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2014 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/PendingWriteQueue.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/AbstractEventLoop.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ReflectiveChannelFactory.java
*
 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ChannelFactory.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2018 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2019 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ChannelHandlerMask.java

* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java

*

 /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2017 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License, version 2.0 (the
* "License"); you may not use this file except in compliance with the License. You may obtain a
* copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/AbstractCoalescingBufferQueue.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License, version 2.0 (the
* "License"); you may not use this file except in compliance with the License. You may obtain a
* copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/CoalescingBufferQueue.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2022 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*

* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675365_1680116232.4282322/0/netty-transport-4-1-90-final-sources-
jar/io/netty/channel/socket/nio/SelectorProviderUtil.java

1.227 netty 4.1.90.Final

1.227.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2020 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/NetUtilInitializations.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/NetUtilSubstitutions.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/DomainWildcardMappingBuilder.java
No license file was found, but licenses were detected in source scan.

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>

```xml
<artifactId>jctools-core</artifactId>
<groupId>org.jctools</groupId>
<version>3.1.0</version>
<name>Java Concurrency Tools Core Library</name>
<description>Java Concurrency Tools Core Library</description>
<packaging>bundle</packaging>

<dependencies>
 <dependency>
  <groupId>org.hamcrest</groupId>
  <artifactId>hamcrest-all</artifactId>
  <version>${hamcrest.version}</version>
  <scope>test</scope>
 </dependency>

 <dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>${junit.version}</version>
  <scope>test</scope>
 </dependency>

 <dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava-testlib</artifactId>
  <version>${guava-testlib.version}</version>
  <scope>test</scope>
 </dependency>
</dependencies>
<build>
 <plugins>
  <plugin>
   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-surefire-plugin</artifactId>
   <version>3.0.0-M3</version>
   <configuration>
    <includes>
     <include>*</include>
    </includes>
   </configuration>
  </plugin>
  <plugin>
   <groupId>org.apache.felix</groupId>
   <artifactId>maven-bundle-plugin</artifactId>
   <version>4.2.1</version>
   <extensions>true</extensions>
   <configuration>
    <instructions>
```

```xml
        <Import-Package>sun.misc;resolution:=optional</Import-Package>
      </instructions>
     </configuration>
    </plugin>
    <plugin>
     <groupId>org.apache.maven.plugins</groupId>
     <artifactId>maven-source-plugin</artifactId>
     <version>3.2.0</version>
     <executions>
      <execution>
       <id>attach-sources</id>
       <phase>verify</phase>
       <goals>
        <goal>jar-no-fork</goal>
       </goals>
      </execution>
     </executions>
    </plugin>
    <plugin>
     <groupId>org.apache.maven.plugins</groupId>
     <artifactId>maven-javadoc-plugin</artifactId>
     <version>3.1.1</version>
     <configuration>
      <additionalOptions>
       <additionalOption>-Xdoclint:none</additionalOption>
      </additionalOptions>
      <source>8</source>
     </configuration>
     <executions>
      <execution>
       <id>attach-javadocs</id>
       <goals>
        <goal>jar</goal>
       </goals>
      </execution>
     </executions>
    </plugin>
   </plugins>
  </build>

  <distributionManagement>
   <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
   </repository>
  </distributionManagement>
```

```xml
<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
 <license>
  <name>Apache
License, Version 2.0</name>
  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
 </license>
</licenses>

<scm>
 <url>https://github.com/JCTools/JCTools</url>
 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
 <developer>
  <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
  <url>https://github.com/RichardWarburton</url>
 </developer>
 <developer>
  <url>https://github.com/kay</url>
 </developer>
 <developer>
  <url>https://github.com/franz1981</url>
 </developer>
</developers>

<prerequisites>
 <maven>3.5.0</maven>
</prerequisites>

<properties>
 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
 <java.version>1.6</java.version>
 <java.test.version>1.8</java.test.version>

 <maven.compiler.source>${java.version}</maven.compiler.source>
 <maven.compiler.target>${java.version}</maven.compiler.target>
 <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
```

```
          <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

          <hamcrest.version>1.3</hamcrest.version>
          <junit.version>4.12</junit.version>
          <guava-testlib.version>21.0</guava-testlib.version>
        </properties>
      </project>
```

Found
 in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/META-
INF/maven/org.jctools/jctools-core/pom.xml
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2015 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License, version 2.0 (the
 * "License"); you may not use this file except in compliance with the License. You may obtain a
 * copy of the License at:
 *
 * https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software distributed under the License
 * is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express
 * or implied. See the License for the specific language governing permissions and limitations under
 * the License.
 */
```

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/ByteProcessor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/MathUtil.java
No license file was found, but licenses were detected in source scan.

```
/*
 * Copyright 2013 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 *   https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
```

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/DefaultFutureListeners.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/Future.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ResourceLeakDetector.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ConcurrentSet.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ReferenceCountUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ConstantPool.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ReadOnlyIterator.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/RecyclableArrayList.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/GenericFutureListener.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/ProgressivePromise.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/EmptyArrays.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/DefaultThreadFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/package-info.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/CompleteFuture.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/Recycler.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-

jar/io/netty/util/ReferenceCounted.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/DefaultProgressivePromise.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/ImmediateExecutor.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ResourceLeak.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/ImmediateEventExecutor.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/PromiseTask.java

*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/PlatformDependent0.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/ProgressiveFuture.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutorGroup.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/AbstractEventExecutor.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/AbstractReferenceCounted.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/GenericProgressiveFutureListener.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/FutureListener.java

*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/PendingWrite.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/ScheduledFuture.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/logging/package-info.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/NoOpTypeParameterMatcher.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/ThreadPerTaskExecutor.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/Version.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/Promise.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ResourceLeakException.java

*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/AppendableCharSequence.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/NettyRuntime.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ReflectionUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/LongAdderCounter.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/EmptyPriorityQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/PriorityQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/UncheckedBooleanSupplier.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ObjectCleaner.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/SuppressForbidden.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2018 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/SuppressJava6Requirement.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/UnstableApi.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-

jar/io/netty/util/internal/logging/Log4J2Logger.java

*

/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ResourceLeakTracker.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/IntSupplier.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java

*

/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/SocketUtils.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/BooleanSupplier.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/MacAddressUtil.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/LongCounter.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/HashingStrategy.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/DomainMappingBuilder.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/AsyncMapping.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/Cleaner.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/CleanerJava9.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2019 The Netty Project

*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/svm/package-info.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/Hidden.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/svm/PlatformDependentSubstitution.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/svm/PlatformDependent0Substitution.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ObjectPool.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ReferenceCountUpdater.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ThreadExecutorMap.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/UnpaddedInternalThreadLocalMap.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/DomainNameMapping.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ThreadDeathWatcher.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/Mapping.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/AsciiString.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ResourceLeakHint.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/IntegerHolder.java
No license file was found, but licenses were detected in source scan.

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/META-INF/native-image/io.netty/netty-common/native-image.properties
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* https://creativecommons.org/publicdomain/zero/1.0/
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ThreadLocalRandom.java
No license file was found, but licenses were detected in source scan.

/*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeLongArrayAccess.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-

jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashSet.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java

*

/opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscGrowableAtomicArrayQueue.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscLinkedQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Preference.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscChunkedArrayQueue.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-

jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java

*

 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseMpscLinkedArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/ConcurrentQueueSpec.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/IndexedQueueSizeUtil.java

*

 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedQueueNode.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseSpscLinkedArrayQueue.java

*

 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscGrowableArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscChunkedAtomicArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscUnboundedArrayQueue.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscAtomicArrayQueue.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2012 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/SucceededFuture.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/AbstractInternalLogger.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/JdkLoggerFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/Slf4JLogger.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/Timer.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/CharsetUtil.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/AbstractConstant.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/EventExecutor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/InternalLogLevel.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/IllegalReferenceCountException.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/concurrent/DefaultEventExecutor.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/Signal.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/package-
info.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/AttributeKey.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/Constant.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/NetUtil.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/Timeout.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/Attribute.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/FailedFuture.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java

*

 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/DefaultAttributeMap.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/AttributeMap.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/PlatformDependent.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/SystemPropertyUtil.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/package-info.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/TimerTask.java

*

 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/HashedWheelTimer.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/StringUtil.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:

*

* https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

/**

* Copyright (c) 2004-2011 QOS.ch

* All rights reserved.

*

* Permission is hereby granted, free of charge, to any person obtaining

* a copy of this software and associated documentation files (the

* "Software"), to deal in the Software without restriction, including

* without

 limitation the rights to use, copy, modify, merge, publish,

* distribute, sublicense, and/or sell copies of the Software, and to

* permit persons to whom the Software is furnished to do so, subject to

* the following conditions:

*

* The above copyright notice and this permission notice shall be

* included in all copies or substantial portions of the Software.

*

* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

* MERCHANTABILITY,   FITNESS   FOR   A   PARTICULAR   PURPOSE   AND

* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE

* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION

* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*

*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/CommonsLogger.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/JdkLogger.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/InternalLogger.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/Log4JLogger.java
No license file was found, but licenses were detected in source scan.

/*

* Copyright 2018 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License, version 2.0 (the
* "License"); you may not use this file except in compliance with the License. You may obtain a
* copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/ByteProcessorUtils.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ResourcesUtil.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/ClassInitializerUtil.java
No license file was found, but licenses were detected in source scan.

Copyright 2019 The Netty Project
#
The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

#
https://www.apache.org/licenses/LICENSE-2.0
#
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.
io.netty.util.internal.Hidden$NettyBlockHoundIntegration

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/META-
INF/services/reactor.blockhound.integration.BlockHoundIntegration
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
/**
* Copyright (c) 2004-2011 QOS.ch
* All rights reserved.
*
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without
 limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:
*
* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
* LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/FormattingTuple.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/logging/MessageFormatter.java
No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2012 The Netty Project
 ~
 ~ The Netty Project licenses this file to you under the Apache License,
 ~ version 2.0 (the "License"); you may not use this file except in compliance
 ~ with the License. You may obtain a copy of the License at:
 ~
 ~   https://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 ~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 ~ License for the specific language governing permissions and limitations
 ~ under the License.
 -->

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/META-
INF/maven/io.netty/netty-common/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License, version 2.0 (the
* "License"); you may not use this file except in compliance with the License. You may obtain a
* copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either

express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/CharObjectMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/LongCollections.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/CharCollections.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/IntCollections.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/ByteObjectMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/CharObjectHashMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/ShortCollections.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/LongObjectHashMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/internal/ObjectUtil.java
*
 /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/ShortObjectHashMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/ShortObjectMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/IntObjectMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/LongObjectMap.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/ByteCollections.java
* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-
jar/io/netty/util/collection/ByteObjectHashMap.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:

*

* https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java

* /opt/cola/permits/1620675283_1680116247.569084/0/netty-common-4-1-90-final-sources-jar/io/netty/util/internal/CleanerJava6.java

1.228 netty-codec 4.1.90.Final

1.228.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2021 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

* https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java

*

 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Zstd.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java

*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Brotli.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2019 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Lz4XXHash32.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0

```
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message.  It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)        AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
```

```
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*    represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)       AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
```

```
* BEFORE DECODE (17 bytes)              AFTER DECODE (17 bytes)
* +----------+----------+----------------+     +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+     +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)              AFTER DECODE (17 bytes)
* +----------+----------+----------------+     +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |     | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+     +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)              AFTER DECODE (13 bytes)
* +------+--------+------+----------------+     +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
```

```
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |     | 0xFE | "HELLO, WORLD" |
* +------+--------+------+---------------+     +------+---------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
  the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                AFTER DECODE (13 bytes)
* +------+--------+------+---------------+     +------+---------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |     | 0xFE | "HELLO, WORLD" |
* +------+--------+------+---------------+     +------+---------------+
* </pre>
* @see LengthFieldPrepender
*/
```

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
```

* under the License.
*/
/*
* Written by Robert Harder and released to the public domain, as explained at
* https://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* Base64 notation.
* <p>
 * The encoding and decoding algorithm in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder.
*/

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/base64/Base64.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/DateFormatter.java
*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/string/LineEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2023 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/EncoderUtil.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
/*
* Written by Robert Harder and released to the public domain, as explained at
* https://creativecommons.org/licenses/publicdomain
*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* Robert

Harder's Public Domain
* Base64 Encoder/Decoder.
*/

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
No license file was found, but licenses were detected in source scan.

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/META-INF/native-
image/io.netty/netty-codec/native-image.properties
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/json/package-info.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java

*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2012 The Netty Project
 ~
 ~ The Netty Project licenses this file to you under the Apache License,
 ~ version 2.0 (the "License"); you may not use this file except in compliance
 ~ with the License. You may obtain a copy of the License at:
 ~
 ~   https://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 ~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 ~ License for the specific language governing permissions and limitations

~ under the License.
-->

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2012 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/xml/package-info.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
*

/opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java

*

 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java

*

 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/bytes/package-info.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/serialization/package-info.java

*

 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/CodecException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-

jar/io/netty/handler/codec/LineBasedFrameDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/DecoderResult.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/DecoderException.java

*

 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/serialization/ClassResolver.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/CompressionException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/LengthFieldPrepender.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/ZlibEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/string/StringEncoder.java

*

 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/MessageToByteEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/serialization/ReferenceMap.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/Delimiters.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java

*

 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/package-info.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/string/package-info.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/JZlibEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/ByteToMessageCodec.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/serialization/ObjectDecoder.java

*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/TooLongFrameException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/ZlibDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/marshalling/package-info.java

*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/DecompressionException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/protobuf/package-info.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/MessageToMessageEncoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/JZlibDecoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java

*
 /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/EncoderException.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/compression/package-info.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-
jar/io/netty/handler/codec/base64/Base64Encoder.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-

jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License, version 2.0 (the
* "License"); you may not use this file except in compliance with the License. You may obtain a
* copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License, version 2.0 (the
* "License"); you may not use this file except in compliance with the License. You may obtain a
* copy of the License at:
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software distributed under the License
* is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/

Found in path(s):
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-

jar/io/netty/handler/codec/ValueConverter.java

* /opt/cola/permits/1620675259_1680236261.0138025/0/netty-codec-4-1-90-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java

1.229 netty-transport-native-unix-common 4.1.90.Final

1.229.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2018 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_buffer.c
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
*
 /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_buffer.h
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/Buffer.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0

*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-
jar/netty_unix_jni.h
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-
jar/io/netty/channel/unix/UnixChannelUtil.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-
jar/netty_unix_socket.c
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-
jar/io/netty/channel/unix/Socket.java
*
 /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-
jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-

jar/io/netty/channel/unix/DomainSocketChannelConfig.java

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_errors.c

*
 /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_errors.h

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/Errors.java

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_filedescriptor.h

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_socket.h

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java

*
 /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_filedescriptor.c

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2020 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix.c
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix.h

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021 The Netty Project

*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
*
 /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainDatagramChannel.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2022 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/IntegerUnixChannelOption.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-

jar/io/netty/channel/unix/RawUnixChannelOption.java

*

 /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/IovArray.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/package-info.java
*
 /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/Unix.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.

*/

Found in path(s):

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_limits.c

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_util.h

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

*
 /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/Limits.java

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_limits.h

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/netty_unix_util.c

No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2016 The Netty Project
 ~
 ~ The Netty Project licenses this file to you under the Apache License,
 ~ version 2.0 (the "License"); you may not use this file except in compliance
 ~ with the License. You may obtain a copy of the License at:
 ~
 ~   https://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 ~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 ~ License for the specific language governing permissions and limitations
 ~ under the License.
-->

Found in path(s):

* /opt/cola/permits/1620675307_1680116248.8153183/0/netty-transport-native-unix-common-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml

1.230 netty-resolver-dns-classes-macos 4.1.90.Final

1.230.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--
  ~ Copyright 2021 The Netty Project
  ~
  ~ The Netty Project licenses this file to you under the Apache License,
  ~ version 2.0 (the "License"); you may not use this file except in compliance
  ~ with the License. You may obtain a copy of the License at:
  ~
  ~   https://www.apache.org/licenses/LICENSE-2.0
  ~
  ~ Unless required by applicable law or agreed to in writing, software
  ~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
  ~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
  ~ License for the specific language governing permissions and limitations
  ~ under the License.
  -->

Found in path(s):
* /opt/cola/permits/1625463968_1680528894.5909224/0/netty-resolver-dns-classes-macos-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-resolver-dns-classes-macos/pom.xml
No license file was found, but licenses were detected in source scan.

/*
 * Copyright 2019 The Netty Project
 *
 * The Netty Project licenses this file to you under the Apache License,
 * version 2.0 (the "License"); you may not use this file except in compliance
 * with the License. You may obtain a copy of the License at:
 *
 *   https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 * WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 * License for the specific language governing permissions and limitations
 * under the License.
 */

Found in path(s):
* /opt/cola/permits/1625463968_1680528894.5909224/0/netty-resolver-dns-classes-macos-4-1-90-final-sources-jar/io/netty/resolver/dns/macos/DnsResolver.java
* /opt/cola/permits/1625463968_1680528894.5909224/0/netty-resolver-dns-classes-macos-4-1-90-final-sources-jar/io/netty/resolver/dns/macos/package-info.java
*
 /opt/cola/permits/1625463968_1680528894.5909224/0/netty-resolver-dns-classes-macos-4-1-90-final-sources-jar/io/netty/resolver/dns/macos/MacOSDnsServerAddressStreamProvider.java

1.231 netty-codec-dns 4.1.90.Final

1.231.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2021 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryDecoder.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/TcpDnsResponseEncoder.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2016 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-

jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java

*
 /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DnsPtrRecord.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DnsOpCode.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DnsResponse.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DnsRecordEncoder.java

*
 /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponse.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DnsQuery.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-
jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsQuestion.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuery.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsRecord.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsRecordType.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsMessageUtil.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsRecord.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/package-info.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsResponse.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java

No license file was found, but licenses were detected in source scan.

<!--
~ Copyright 2014 The Netty Project
~

~ The Netty Project licenses this file to you under the Apache License,

~ version 2.0 (the "License"); you may not use this file except in compliance

~ with the License. You may obtain a copy of the License at:

~

~   https://www.apache.org/licenses/LICENSE-2.0

~

~ Unless required by applicable law or agreed to in writing, software

~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

~ License for the specific language governing permissions and limitations

~ under the License.

-->

Found in path(s):

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-codec-dns/pom.xml

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2019 The Netty Project

*

* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance

* with the License. You may obtain a copy of the License at:

*

*   https://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the

* License for the specific language governing permissions and limitations

* under the License.

*/

Found in path(s):

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/TcpDnsQueryEncoder.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java

*

 /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsQueryEncoder.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java

* /opt/cola/permits/1625463961_1681400456.0035121/0/netty-codec-dns-4-1-90-final-sources-jar/io/netty/handler/codec/dns/DnsCodecUtil.java

1.232 netty-resolver-dns 4.1.90.Final

1.232.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2017 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
*
 /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java
*
 /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DnsCacheEntry.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-

jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory,java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java

*

 /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsNameResolverTimeoutException.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2018 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DirContextUtils.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java

*

 /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsRecordResolveContext.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/Cache.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsCnameCache.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsAddressDecoder.java

*
 /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsAddressResolveContext.java

* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCache.java

No license file was found, but licenses were detected in source scan.

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

Found in path(s):
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/META-INF/native-image/io.netty/netty-resolver-dns/native-image.properties

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2022 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsServerResponseFeedbackAddressStream.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,

* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/InflightNameResolver.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/NoopDnsCache.java
*
 /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DefaultDnsCache.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DnsCache.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2019 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DatagramDnsQueryContext.java
*

/opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/TcpDnsQueryContext.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2015 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsNameResolverException.java
*
 /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2014 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:

*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DnsResolveContext.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DnsNameResolver.java
*
 /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DnsAddressResolverGroup.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DnsServerAddresses.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/package-info.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/DnsQueryContext.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2020 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/UnixResolverOptions.java
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-
jar/io/netty/resolver/dns/LoggingDnsQueryLifeCycleObserverFactory.java

No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2014 The Netty Project
 ~
 ~ The Netty Project licenses this file to you under the Apache License,
 ~ version 2.0 (the "License"); you may not use this file except in compliance
 ~ with the License. You may obtain a copy of the License at:
 ~
 ~   https://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
 ~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
 ~ License for the specific language governing permissions and limitations
 ~ under the License.
 -->

Found in path(s):
* /opt/cola/permits/1625463982_1680528899.7015977/0/netty-resolver-dns-4-1-90-final-sources-jar/META-INF/maven/io.netty/netty-resolver-dns/pom.xml

1.233 reactor-extra 3.4.10

1.233.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
 * Copyright (c) 2011-2021 VMware Inc. or its affiliates, All Rights Reserved.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 *   https://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

Found in path(s):
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/extra/processor/WorkQueueProcessor.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-

jar/reactor/swing/SwtScheduler.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-
jar/reactor/extra/processor/EventLoopProcessor.java
*
 /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-
jar/reactor/swing/SwingScheduler.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-
jar/reactor/extra/processor/TopicProcessor.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-
jar/reactor/extra/processor/WaitStrategy.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2017-2022 VMware Inc. or its affiliates, All Rights Reserved.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-
jar/reactor/retry/DefaultRetry.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-
jar/reactor/cache/CacheMono.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-
jar/reactor/retry/RetryContext.java
*
 /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-
jar/reactor/cache/CacheFlux.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/Backoff.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-
jar/reactor/retry/RetryExhaustedException.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/Retry.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2011-2021 VMware Inc. or its affiliates, All Rights Reserved.
*
* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
 *
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-
jar/reactor/extra/processor/RingBuffer.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2018-2021 VMware Inc. or its affiliates, All Rights Reserved.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/RandomJitter.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/bool/BooleanUtils.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/bool/BooleanMonoExtensions.kt
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2017-2021 VMware Inc. or its affiliates, All Rights Reserved.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/RepeatContext.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Consumer6.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Function3.java
*
 /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Consumer8.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoAverageBigInteger.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoFromFluxOperator.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Predicate3.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MathFluxExtensions.kt
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Predicate4.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoSumBigInteger.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-

jar/reactor/function/Predicate5.java
*
 /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Consumer4.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Function5.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MathFlux.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Consumer7.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Function6.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/Jitter.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoSumDouble.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/RepeatExtensions.kt
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Function4.java
*
 /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoSumBigDecimal.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Predicate6.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/Repeat.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Consumer5.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/BackoffDelay.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/DefaultContext.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/swing/SwtSchedulerExtensions.kt
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/AbstractRetry.java
*
 /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/scheduler/clock/SchedulerClock.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Predicate7.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/IterationContext.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MathSubscriber.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Predicate8.java
* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoSumInt.java

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/DefaultRepeat.java

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/scheduler/forkjoin/ForkJoinPoolScheduler.java

*
 /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/retry/RetryExtensions.kt

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoAverageBigDecimal.java

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/TupleUtils.java

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoAverageFloat.java

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Consumer3.java

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoMinMax.java

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoSumLong.java

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoSumFloat.java

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/math/MonoAverageDouble.java

*
 /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Function7.java

* /opt/cola/permits/1626999531_1680625408.3224962/0/reactor-extra-3-4-10-sources-jar/reactor/function/Function8.java

1.234 swagger-core 2.2.8

1.234.1 Available under license :

Swagger Core - ${pom.name}

Copyright (c) 2015. SmartBear Software Inc.

Swagger Core - ${pom.name} is licensed under Apache 2.0 license.

Copy of the Apache 2.0 license can be found in `LICENSE` file.

                        Apache License
                  Version 2.0, January 2004
                http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright (c) 2015. SmartBear Software Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.235 springdoc-openapi-webmvc-core 1.6.15
1.235.1 Available under license :
No license file was found, but licenses were detected in source scan.

/*
*
* *
* * *
* * * * Copyright 2019-2022 the original author or authors.
* * * *
* * * * Licensed under the Apache License, Version 2.0 (the "License");
* * * * you may not use this file except in compliance with the License.
* * * * You may obtain a copy of the License at
* * * *
* * * *   https://www.apache.org/licenses/LICENSE-2.0
* * * *
* * * * Unless required by applicable law or agreed to in writing, software
* * * * distributed under the License is distributed on an "AS IS" BASIS,
* * * * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* * * * See the License for the specific language governing permissions and
* * * * limitations under the License.
* * *
* *
*
*/

Found in path(s):
* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-
jar/org/springdoc/webmvc/api/MultipleOpenApiResource.java
*
 /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-
jar/org/springdoc/webmvc/api/MultipleOpenApiWebMvcResource.java
* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-
jar/org/springdoc/webmvc/api/OpenApiWebMvcResource.java
* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-
jar/org/springdoc/webmvc/api/OpenApiActuatorResource.java
* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-
jar/org/springdoc/webmvc/api/OpenApiResource.java

* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-jar/org/springdoc/webmvc/core/ActuatorWebMvcProvider.java

* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-jar/org/springdoc/webmvc/core/SpringDocWebMvcConfiguration.java

* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-jar/org/springdoc/webmvc/core/RouterFunctionWebMvcProvider.java

*
 /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-jar/org/springdoc/webmvc/core/fn/SpringdocRouteBuilder.java

* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-jar/org/springdoc/webmvc/core/MultipleOpenApiSupportConfiguration.java

* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-jar/org/springdoc/webmvc/api/MultipleOpenApiActuatorResource.java

* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-jar/org/springdoc/webmvc/core/SpringWebMvcProvider.java

* /opt/cola/permits/1627273951_1681885507.8215756/0/springdoc-openapi-webmvc-core-1-6-15-sources-jar/org/springdoc/webmvc/core/RequestService.java

1.236 springdoc-openapi-common 1.6.15

1.236.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 *
 * *
 * * *
 * * * * Copyright 2019-2023 the original author or authors.
 * * * *
 * * * * Licensed under the Apache License, Version 2.0 (the "License");
 * * * * you may not use this file except in compliance with the License.
 * * * * You may obtain a copy of the License at
 * * * *
 * * * *      https://www.apache.org/licenses/LICENSE-2.0
 * * * *
 * * * * Unless required by applicable law or agreed to in writing, software
 * * * * distributed under the License is distributed on an "AS IS" BASIS,
 * * * * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * * * * See the License for the specific language governing permissions and
 * * * * limitations under the License.
 * * *
 * *
 *
 */
```

Found in path(s):
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-

jar/org/springdoc/core/GenericResponseService.java

No license file was found, but licenses were detected in source scan.

```
/*
 *
 * *
 * * *
 * * * *
 * * * * * Copyright 2019-2022 the original author or authors.
 * * * * *
 * * * * * Licensed under the Apache License, Version 2.0 (the "License");
 * * * * * you may not use this file except in compliance with the License.
 * * * * * You may obtain a copy of the License at
 * * * * *
 * * * * *      https://www.apache.org/licenses/LICENSE-2.0
 * * * * *
 * * * * * Unless required by applicable law or agreed to in writing, software
 * * * * * distributed under the License is distributed on an "AS IS" BASIS,
 * * * * * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * * * * * See the License for the specific language governing permissions and
 * * * * * limitations under the License.
 * * * *
 * * *
 * *
 *
 */
```

Found in path(s):
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/SpringDocCustomizers.java

No license file was found, but licenses were detected in source scan.

```
/*
 *
 * *
 * * *
 * * * * Copyright 2019-2022 the original author or authors.
 * * * *
 * * * * Licensed under the Apache License, Version 2.0 (the "License");
 * * * * you may not use this file except in compliance with the License.
 * * * * You may obtain a copy of the License at
 * * * *
 * * * *      https://www.apache.org/licenses/LICENSE-2.0
 * * * *
 * * * * Unless required by applicable law or agreed to in writing, software
 * * * * distributed under the License is distributed on an "AS IS" BASIS,
 * * * * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * * * * See the License for the specific language governing permissions and
```

```
* * * * limitations under the License.
* * *
* *
*
*/
```

Found in path(s):
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/fn/builders/server/Builder.java
*
 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/SpringdocBeanFactoryConfigurer.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/Constants.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/SpringDocPropertiesUtils.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/api/mixins/SortedSchemaMixin31.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/api/AbstractOpenApiResource.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/api/mixins/SortedSchemaMixin.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/customizers/OpenApiLocaleCustomizer.java
*
 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/MethodAttributes.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/converters/WebFluxSupportConverter.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/fn/builders/securityrequirement/Builder.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/customizers/ServerBaseUrlCustomizer.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/fn/builders/externaldocumentation/Builder.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/api/mixins/SortedOpenAPIMixin31.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/OpenAPIService.java
*
 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/fn/builders/linkparameter/Builder.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/converters/models/Pageable.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/AbstractRequestService.java
* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-
jar/org/springdoc/core/customizers/ParameterCustomizer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/RouterOperation.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/SortOpenAPIConverter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SecurityService.java

*
 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SecuritySchemePair.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SwaggerUiOAuthProperties.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/OpenApiCustomiser.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/models/DefaultPageable.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/header/Builder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/models/PageableAsQueryParam.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/RepositoryRestResourceProvider.java

*
 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/api/mixins/SortedOpenAPIMixin.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/annotations/RouterOperations.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SpringDocConfiguration.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/SchemaPropertyDeprecatingConverter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/AdditionalModelsConverter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/MethodParameterPojoExtractor.java

*
 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/filters/GlobalOpenApiMethodFilter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/JavaTypeToIgnoreConverter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/OperationService.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/extensionproperty/Builder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SpringdocActuatorBeanFactoryConfigurer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/AbstractSpringdocRouteBuilder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-

jar/org/springdoc/core/converters/PolymorphicModelConverter.java

*

/opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/ui/AbstractSwaggerWelcome.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/api/ErrorMessage.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/PropertyCustomizer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SwaggerUiConfigProperties.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/SpringDataWebPropertiesProvider.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/api/OpenApiResourceNotFoundException.java

*

/opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/PropertyResolverUtils.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/FileSupportConverter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/ResponseSupportConverter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/OpenApiBuilderCustomizer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/GlobalOpenApiCustomizer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/PropertyCustomizingConverter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/link/Builder.java

*

/opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/discriminatormapping/Builder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/RequestBodyInfo.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/ui/SpringDocUIException.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/PageableOpenAPIConverter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/annotations/RouterOperation.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SpringDocConfigProperties.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/extension/Builder.java

*

/opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/exampleobject/Builder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-

jar/org/springdoc/core/providers/SecurityOAuth2Provider.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/GenericParameterService.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SpringDocUtils.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/ParameterInfo.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/ConverterUtils.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/RequestBodyService.java

*
 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/ReturnTypeParser.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/AbstractSwaggerUiConfigProperties.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/models/Sort.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/CacheOrGroupedOpenApiCondition.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SpringDocProviders.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/requestbody/Builder.java

*
 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/ui/AbstractSwaggerIndexTransformer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/DelegatingMethodParameterCustomizer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/AbstractRouterFunctionVisitor.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/SpringWebProvider.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/ModelConverterRegistrar.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/OperationCustomizer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/MultipleOpenApiSupportCondition.java

*
 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/RouterFunctionProvider.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/SpringCloudFunctionProvider.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/ActuatorOpenApiCustomizer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/GroupedOpenApi.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/servervariable/Builder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/ParameterId.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/converters/models/MonetaryAmount.java

*

 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/operation/Builder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SwaggerUiConfigParameters.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/DelegatingMethodParameter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/ControllerAdviceInfo.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/api/annotations/ParameterObject.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/ObjectMapperProvider.java

*

 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/encoding/Builder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/CloudFunctionProvider.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/RouterFunctionData.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/GlobalOperationCustomizer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/WebConversionServiceProvider.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/DataRestDelegatingMethodParameterCustomizer.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/customizers/ActuatorOperationCustomizer.java

*

 /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/MultipleOpenApiGroupsCondition.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/apiresponse/Builder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/SpringDocAnnotationsUtils.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/content/Builder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/parameter/Builder.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/schema/Builder.java

*

/opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/JavadocProvider.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/ActuatorProvider.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/providers/RepositoryRestConfigurationProvider.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/filters/OpenApiMethodFilter.java

* /opt/cola/permits/1627274059_1680652604.6881826/0/springdoc-openapi-common-1-6-15-sources-jar/org/springdoc/core/fn/builders/arrayschema/Builder.java

1.237 springdoc-openapi-ui 1.6.15

1.237.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
 *
 * *
 * * *
 * * * * Copyright 2019-2022 the original author or authors.
 * * * *
 * * * * Licensed under the Apache License, Version 2.0 (the "License");
 * * * * you may not use this file except in compliance with the License.
 * * * * You may obtain a copy of the License at
 * * * *
 * * * *      https://www.apache.org/licenses/LICENSE-2.0
 * * * *
 * * * * Unless required by applicable law or agreed to in writing, software
 * * * * distributed under the License is distributed on an "AS IS" BASIS,
 * * * * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * * * * See the License for the specific language governing permissions and
 * * * * limitations under the License.
 * * *
 * *
 *
 */
```

Found in path(s):
* /opt/cola/permits/1627274004_1680652637.7984107/0/springdoc-openapi-ui-1-6-15-sources-jar/org/springdoc/webmvc/ui/SwaggerWebMvcConfigurer.java
*
 /opt/cola/permits/1627274004_1680652637.7984107/0/springdoc-openapi-ui-1-6-15-sources-jar/org/springdoc/webmvc/ui/SwaggerUiHome.java
* /opt/cola/permits/1627274004_1680652637.7984107/0/springdoc-openapi-ui-1-6-15-sources-jar/org/springdoc/webmvc/ui/SwaggerConfig.java
* /opt/cola/permits/1627274004_1680652637.7984107/0/springdoc-openapi-ui-1-6-15-sources-

jar/org/springdoc/webmvc/ui/SwaggerConfigResource.java

* /opt/cola/permits/1627274004_1680652637.7984107/0/springdoc-openapi-ui-1-6-15-sources-jar/org/springdoc/webmvc/ui/SwaggerWelcomeCommon.java

* /opt/cola/permits/1627274004_1680652637.7984107/0/springdoc-openapi-ui-1-6-15-sources-jar/org/springdoc/webmvc/ui/SwaggerIndexPageTransformer.java

* /opt/cola/permits/1627274004_1680652637.7984107/0/springdoc-openapi-ui-1-6-15-sources-jar/org/springdoc/webmvc/ui/SwaggerWelcomeWebMvc.java

* /opt/cola/permits/1627274004_1680652637.7984107/0/springdoc-openapi-ui-1-6-15-sources-jar/org/springdoc/webmvc/ui/SwaggerWelcomeActuator.java

*
 /opt/cola/permits/1627274004_1680652637.7984107/0/springdoc-openapi-ui-1-6-15-sources-jar/org/springdoc/webmvc/ui/SwaggerIndexTransformer.java

1.238 swagger-models 2.2.8

1.238.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
    Work or Derivative Works thereof in any medium, with or without
    modifications, and in Source or Object form, provided that You
    meet the following conditions:

    (a) You must give any other recipients of the Work or
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its
        distribution, then any Derivative Works that You distribute must
        include a readable copy of the attribution notices contained
        within such NOTICE file, excluding
those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,

1.239 swagger 2.2.8

1.239.1 Available under license :

swagger-ui
Copyright 2020-2021 SmartBear Software Inc.
swagger: "2.0"
info:

title: OpenAPI 2.0 License with only url present
version: 1.0.0
description: This is a sample server for a pet store.
license:
  name: Apache 2.0
  url: https://www.apache.org/licenses/LICENSE-2.0.html
openapi: 3.0.0
info:
title: OpenAPI 3.0 License with only url present
version: 1.0.0
description: This is a sample server for a pet store.
license:
  name: Apache 2.0
  url: https://www.apache.org/licenses/LICENSE-2.0.html

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.

```
/**
* @prettier
*/
import React from "react"
import PropTypes from "prop-types"

import { sanitizeUrl } from "core/utils"

const License = ({ getComponent, specSelectors }) => {
 const name = specSelectors.selectLicenseNameField()
 const url = specSelectors.selectLicenseUrl()

 const Link = getComponent("Link")

 return (
  <div className="info__license">
```

```
    {url ? (
      <div className="info__license__url">
        <Link target="_blank" href={sanitizeUrl(url)}>
          {name}
        </Link>
      </div>
    ) : (
      <span>{name}</span>
    )}
  </div>
)
}

License.propTypes = {
 getComponent: PropTypes.func.isRequired,
 specSelectors: PropTypes.shape({
   selectLicenseNameField: PropTypes.func.isRequired,
   selectLicenseUrl: PropTypes.func.isRequired,
 }).isRequired,
}

export default License
```
openapi: 3.1.0
info:
 title: OpenAPI 3.1 License with only url present
 version: 1.0.0
 description: This is a sample server for a pet store.
 license:
   name: Apache 2.0
   url: https://www.apache.org/licenses/LICENSE-2.0.html
   # identifier: Apache-2.0 # mutually exclusive of url; separately, for json_schema, consider const, prefix, array
items can be of a different type (current assumption is all array items are the same)
```
/**
* @prettier
*/
import React from "react"

import { createOnlyOAS31ComponentWrapper } from "../fn"

const LicenseWrapper = createOnlyOAS31ComponentWrapper(({ getSystem }) => {
 const system = getSystem()
 const OAS31License = system.getComponent("OAS31License", true)

 return <OAS31License />
})

export default LicenseWrapper
```

```
openapi: 3.1.0
info:
 title: OpenAPI 3.1 License with only identifier present
 version: 1.0.0
 description: This is a sample server for a pet store.
 license:
   name: Apache 2.0
   url: https://www.apache.org/licenses/LICENSE-2.0.html
   identifier: Apache-2.0 # mutually exclusive of url; separately, for json_schema, consider const, prefix, array items
can be of a different type (current assumption is all array items are the same)
/**
* @prettier
*/
import React from "react"
import PropTypes from "prop-types"
import { safeBuildUrl } from "core/utils/url"
import { sanitizeUrl } from "core/utils"

class License extends React.Component {
 static propTypes = {
   license: PropTypes.object,
   getComponent: PropTypes.func.isRequired,
   specSelectors: PropTypes.object.isRequired,
   selectedServer: PropTypes.string,
   url: PropTypes.string.isRequired,
 }

 render() {
   const { license, getComponent, selectedServer, url: specUrl } = this.props
   const name = license.get("name", "License")
   const url = safeBuildUrl(license.get("url"), specUrl, { selectedServer })

   const Link = getComponent("Link")

   return (
     <div className="info__license">
       {url ? (
         <div className="info__license__url">
           <Link target="_blank" href={sanitizeUrl(url)}>
             {name}
           </Link>
         </div>
       ) : (
         <span>{name}</span>
       )}
     </div>
   )
```

```
    }
}

export default License
openapi: 3.1.0
info:
 title: OpenAPI 3.1 License with only identifier present
 version: 1.0.0
 description: This is a sample server for a pet store.
 license:
   name: Apache 2.0
   identifier: Apache-2.0
```

1.240 swagger-annotations 2.2.8
1.240.1 Available under license :

Swagger Core - swagger-annotations

Copyright (c) 2015. SmartBear Software Inc.

Swagger Core - swagger-annotations is licensed under Apache 2.0 license.

Copy of the Apache 2.0 license can be found in `LICENSE` file.

                        Apache License
                   Version 2.0, January 2004
                 http://www.apache.org/licenses/

    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

    1. Definitions.

       "License" shall mean the terms and conditions for use, reproduction,
       and distribution as defined by Sections 1 through 9 of this document.

       "Licensor" shall mean the copyright owner or entity authorized by
       the copyright owner that is granting the License.

       "Legal Entity" shall mean the union of the acting entity and all
       other entities that control, are controlled by, or are under common
       control with that entity. For the purposes of this definition,
       "control" means (i) the power, direct or indirect, to cause the
       direction or management of such entity, whether by contract or
       otherwise, or (ii) ownership of fifty percent (50%) or more of the
       outstanding shares, or (iii) beneficial ownership
    of such entity.

       "You" (or "Your") shall mean an individual or Legal Entity
       exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
  this
License, each Contributor hereby grants to You a perpetual,
  worldwide, non-exclusive, no-charge, royalty-free, irrevocable
  (except as stated in this section) patent license to make, have made,
  use, offer to sell, sell, import, and otherwise transfer the Work,
  where such license applies only to those patent claims licensable
  by such Contributor that are necessarily infringed by their
  Contribution(s) alone or by combination of their Contribution(s)
  with the Work to which such Contribution(s) was submitted. If You
  institute patent litigation against any entity (including a
  cross-claim or counterclaim in a lawsuit) alleging that the Work
  or a Contribution incorporated within the Work constitutes direct
  or contributory patent infringement, then any patent licenses
  granted to You under this License for that Work shall terminate
  as of the date such litigation is filed.

  4. Redistribution. You may reproduce and distribute
copies of the
  Work or Derivative Works thereof in any medium, with or without
  modifications, and in Source or Object form, provided that You
  meet the following conditions:

  (a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

  (b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

  (c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

  (d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright (c) 2015. SmartBear Software Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.241 netty-resolver-dns-native-macos 4.1.90.Final

1.241.1 Available under license :

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
   that You distribute, all copyright, patent, trademark, and
   attribution notices from the Source form of the Work,
   excluding those notices that do not pertain to any part of
   the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
   distribution, then any Derivative Works that You distribute must
   include a readable copy of the attribution notices contained
   within such NOTICE file, excluding

those notices that do not

   pertain to any part of the Derivative Works, in at least one
   of the following places: within a NOTICE text file distributed
   as part of the Derivative Works; within the Source form or
   documentation, if provided along with the Derivative Works; or,
   within a display generated by the Derivative Works, if and
   wherever such third-party notices normally appear. The contents
   of the NOTICE file are for informational purposes only and
   do not modify the License. You may add Your own attribution
   notices within Derivative Works that You distribute, alongside
   or as an addendum to the NOTICE text from the Work, provided
   that such additional attribution notices cannot be construed
   as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
The MIT License

Copyright (c) 2009 William Kinney

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2014 Cory Benfield

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
 IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
/*
* Copyright (c) 2004-2006, 2008, 2009, 2011 Apple Inc. All rights reserved.
*
* @APPLE_LICENSE_HEADER_START@
*
* This file contains Original Code and/or Modifications of Original Code
* as defined in and that are subject to the Apple Public Source License
* Version 2.0 (the 'License'). You may not use this file except in
* compliance with the License. Please obtain a copy of the License at
* https://www.opensource.apple.com/apsl/ and read it before using this
* file.
*
* The Original Code and all software distributed under the License are
* distributed on an 'AS IS' basis, WITHOUT WARRANTY OF ANY KIND, EITHER
* EXPRESS OR IMPLIED, AND APPLE HEREBY DISCLAIMS ALL SUCH WARRANTIES,
* INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT OR NON-INFRINGEMENT.
* Please see the License for the specific language governing rights and
* limitations under the License.
*
* @APPLE_LICENSE_HEADER_END@
*/

                    Apache License
                Version 2.0, January 2004
                https://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates whatever
copyright the dedicators holds in the work of authorship identified below (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this
work. Certifier recognizes that his good faith efforts may not shield him from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to
the detriment of the Dedicator's heirs and successors. Dedicator intends this
dedication to be an overt act of relinquishment in perpetuity
 of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be

freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
Copyright 2009-2010 Ning, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not
use this file except in compliance with the License. You may obtain a copy of
the License at https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations under
the License.
Copyright 2011, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS
 BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2010-2011 Matthew J. Francis and Contributors of the jbzip2 Project

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
 ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "{}"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

  https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
The person or persons who have associated work with this document (the
"Dedicator" or "Certifier") hereby either (a) certifies that, to the best of
his knowledge, the work of authorship identified is in the public domain of
the country from which the work is published, or (b) hereby dedicates whatever
copyright the dedicators holds in the work of authorship identified below (the
"Work") to the public domain. A certifier, moreover, dedicates any copyright
interest he may have in the associated work, and for these purposes, is
described as a "dedicator" below.

A certifier has taken reasonable steps to verify the copyright status of this
work. Certifier recognizes that his good faith efforts may not shield him from
liability if in fact the work certified is not in the public domain.

Dedicator makes this dedication for the benefit of the public at large and to
the detriment of the Dedicator's heirs and successors. Dedicator intends this
dedication to be an overt act of relinquishment in perpetuate
 of all present
and future rights under copyright law, whether vested or contingent, in the
Work. Dedicator understands that such relinquishment of all rights includes
the relinquishment of all rights to enforce (by lawsuit or otherwise) those
copyrights in the Work.

Dedicator recognizes that, once placed in the public domain, the Work may be
freely reproduced, distributed, transmitted, used, modified, built upon, or
otherwise exploited by anyone for any purpose, commercial or non-commercial,
and in any way, including by methods that have not yet been invented or
conceived.
The MIT License (MIT)

Copyright (c) 2000 - 2013 The Legion of the Bouncy Castle Inc.
              (https://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
This copy of Aalto XML processor is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

https://www.apache.org/licenses/

A copy is also included with both the the downloadable source code package
and jar that contains class bytecodes, as file "ASL 2.0". In both cases,
that file should be located next to this file: in source distribution
the location should be "release-notes/asl"; and in jar "META-INF/"

<div align="center">

Apache License

Version 2.0, January 2004

https://www.apache.org/licenses/

</div>

 TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

 1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
 of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Protocol Buffers - Google's data interchange format
Copyright 2013 Google Inc. All rights reserved.
https://developers.google.com/protocol-buffers/

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

                    The Netty Project
                    =================

Please visit the Netty web site for more information:

 * https://netty.io/

Copyright 2014 The Netty Project

The Netty Project licenses this file to you under the Apache License,
version 2.0 (the "License"); you may not use this file except in compliance
with the License. You may obtain a copy of the License at:

 https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
License for the specific language governing permissions and limitations
under the License.

Also, please refer to each LICENSE.<component>.txt file, which is located in
the 'license' directory of the distribution file, for the license terms of the
components that this product depends on.

This
 product contains the extensions to Java Collections Framework which has
been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

* LICENSE:
   * license/LICENSE.jsr166y.txt (Public Domain)
 * HOMEPAGE:
   * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/
   * http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/jsr166/

This product contains a modified version of Robert Harder's Public Domain
Base64 Encoder and Decoder, which can be obtained at:

 * LICENSE:
   * license/LICENSE.base64.txt (Public Domain)
 * HOMEPAGE:
   * http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based
WebSocket and HTTP server, which can be obtained at:

 * LICENSE:
   * license/LICENSE.webbit.txt (BSD License)
 * HOMEPAGE:
   * https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging
facade for Java,
 which can be obtained at:

 * LICENSE:
   * license/LICENSE.slf4j.txt (MIT License)
 * HOMEPAGE:
   * https://www.slf4j.org/

This product contains a modified portion of 'Apache Harmony', an open source
Java SE, which can be obtained at:

 * NOTICE:
   * license/NOTICE.harmony.txt
 * LICENSE:
   * license/LICENSE.harmony.txt (Apache License 2.0)
 * HOMEPAGE:
   * https://archive.apache.org/dist/harmony/

This product contains a modified portion of 'jbzip2', a Java bzip2 compression
and decompression library written by Matthew J. Francis. It can be obtained at:

 * LICENSE:
   * license/LICENSE.jbzip2.txt (MIT License)
 * HOMEPAGE:

* https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library to construct
the suffix array and the Burrows-Wheeler transformed string for any input string of
a constant-size alphabet written by Yuta Mori. It can be obtained at:

 * LICENSE:
   * license/LICENSE.libdivsufsort.txt (MIT
 License)
 * HOMEPAGE:
   * https://github.com/y-256/libdivsufsort

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM,
which can be obtained at:

 * LICENSE:
   * license/LICENSE.jctools.txt (ASL2 License)
 * HOMEPAGE:
   * https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in
pure Java, which can be obtained at:

 * LICENSE:
   * license/LICENSE.jzlib.txt (BSD style License)
 * HOMEPAGE:
   * http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for encoding and
decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

 * LICENSE:
   * license/LICENSE.compress-lzf.txt (Apache License 2.0)
 * HOMEPAGE:
   * https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression
and decompression library written by Adrien Grand. It can be obtained at:

 * LICENSE:
   * license/LICENSE.lz4.txt
 (Apache License 2.0)
 * HOMEPAGE:
   * https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression
and decompression library, which can be obtained at:

* LICENSE:
  * license/LICENSE.lzma-java.txt (Apache License 2.0)
 * HOMEPAGE:
  * https://github.com/jponge/lzma-java

This product optionally depends on 'zstd-jni', a zstd-jni Java compression
and decompression library, which can be obtained at:

 * LICENSE:
  * license/LICENSE.zstd-jni.txt (Apache License 2.0)
 * HOMEPAGE:
  * https://github.com/luben/zstd-jni

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression
and decompression library written by William Kinney. It can be obtained at:

 * LICENSE:
  * license/LICENSE.jfastlz.txt (MIT License)
 * HOMEPAGE:
  * https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data
interchange
 format, which can be obtained at:

 * LICENSE:
  * license/LICENSE.protobuf.txt (New BSD License)
 * HOMEPAGE:
  * https://github.com/google/protobuf

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate
a temporary self-signed X.509 certificate when the JVM does not provide the
equivalent functionality. It can be obtained at:

 * LICENSE:
  * license/LICENSE.bouncycastle.txt (MIT License)
 * HOMEPAGE:
  * https://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced
by Google Inc, which can be obtained at:

 * LICENSE:
  * license/LICENSE.snappy.txt (New BSD License)
 * HOMEPAGE:
  * https://github.com/google/snappy

This product optionally depends on 'JBoss Marshalling', an alternative Java

serialization API, which can be obtained at:

 * LICENSE:
   * license/LICENSE.jboss-marshalling.txt (Apache License 2.0)
 * HOMEPAGE:
   * https://github.com/jboss-remoting/jboss-marshalling

This product
 optionally depends on 'Caliper', Google's micro-
benchmarking framework, which can be obtained at:

 * LICENSE:
   * license/LICENSE.caliper.txt (Apache License 2.0)
 * HOMEPAGE:
   * https://github.com/google/caliper

This product optionally depends on 'Apache Commons Logging', a logging
framework, which can be obtained at:

 * LICENSE:
   * license/LICENSE.commons-logging.txt (Apache License 2.0)
 * HOMEPAGE:
   * https://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework, which
can be obtained at:

 * LICENSE:
   * license/LICENSE.log4j.txt (Apache License 2.0)
 * HOMEPAGE:
   * https://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance
non-blocking XML processor, which can be obtained at:

 * LICENSE:
   * license/LICENSE.aalto-xml.txt (Apache License 2.0)
 * HOMEPAGE:
   * https://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a
 Java implementation of
the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

 * LICENSE:
   * license/LICENSE.hpack.txt (Apache License 2.0)
 * HOMEPAGE:
   * https://github.com/twitter/hpack

This product contains a modified version of 'HPACK', a Java implementation of
the HTTP/2 HPACK algorithm written by Cory Benfield. It can be obtained at:

 * LICENSE:
   * license/LICENSE.hyper-hpack.txt (MIT License)
 * HOMEPAGE:
   * https://github.com/python-hyper/hpack/

This product contains a modified version of 'HPACK', a Java implementation of
the HTTP/2 HPACK algorithm written by Tatsuhiro Tsujikawa. It can be obtained at:

 * LICENSE:
   * license/LICENSE.nghttp2-hpack.txt (MIT License)
 * HOMEPAGE:
   * https://github.com/nghttp2/nghttp2/

This product contains a modified portion of 'Apache Commons Lang', a Java library
provides utilities for the java.lang API, which can be obtained at:

 * LICENSE:
   * license/LICENSE.commons-lang.txt (Apache License
 2.0)
 * HOMEPAGE:
   * https://commons.apache.org/proper/commons-lang/

This product contains the Maven wrapper scripts from 'Maven Wrapper', that provides an easy way to ensure a user
has everything necessary to run the Maven build.

 * LICENSE:
   * license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
 * HOMEPAGE:
   * https://github.com/takari/maven-wrapper

This product contains the dnsinfo.h header file, that provides a way to retrieve the system DNS configuration on
MacOS.
This private header is also used by Apple's open source
mDNSResponder (https://opensource.apple.com/tarballs/mDNSResponder/).

* LICENSE:
   * license/LICENSE.dnsinfo.txt (Apple Public Source License 2.0)
 * HOMEPAGE:
   * https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h

This product optionally depends on 'Brotli4j', Brotli compression and
decompression for Java., which can be obtained at:

* LICENSE:
  * license/LICENSE.brotli4j.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/hyperxpro/Brotli4j

Copyright (c) 2003-2008 Yuta Mori All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR
 IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
/*
* Copyright (c) 2004-2007 QOS.ch
* All rights reserved.
*
* Permission is hereby granted, free of charge, to any person obtaining
* a copy of this software and associated documentation files (the
* "Software"), to deal in the Software without restriction, including
* without limitation the rights to use, copy, modify, merge, publish,
* distribute, sublicense, and/or sell copies of the Software, and to
* permit persons to whom the Software is furnished to do so, subject to
* the following conditions:
*
* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
* MERCHANTABILITY,   FITNESS   FOR   A   PARTICULAR   PURPOSE   AND
* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
* LIABLE FOR ANY

CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
* OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
* WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/

Apache Harmony

Copyright 2006, 2010 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).
Copyright (c) 2000,2001,2002,2003,2004 ymnk, JCraft,Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the distribution.

 3. The names of the authors may not be used to endorse or promote products
    derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT,
INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE
 BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.242 netty-transport-native-epoll 4.1.90.Final

1.242.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2014 The Netty Project
 ~
 ~ The Netty Project licenses this file to you under the Apache License,
 ~ version 2.0 (the "License"); you may not use this file except in compliance

~ with the License. You may obtain a copy of the License at:
~
~   https://www.apache.org/licenses/LICENSE-2.0
~
~ Unless required by applicable law or agreed to in writing, software
~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.
-->

Found in path(s):
* /opt/cola/permits/1640920082_1681936533.0387099/0/netty-transport-native-epoll-4-1-90-final-sources-1-jar/META-INF/maven/io.netty/netty-transport-native-epoll/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1640920082_1681936533.0387099/0/netty-transport-native-epoll-4-1-90-final-sources-1-jar/netty_epoll_native.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2016 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
* with the License. You may obtain a copy of the License at:
*
*   https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT

* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/

Found in path(s):
* /opt/cola/permits/1640920082_1681936533.0387099/0/netty-transport-native-epoll-4-1-90-final-sources-1-jar/netty_epoll_linuxsocket.c
* /opt/cola/permits/1640920082_1681936533.0387099/0/netty-transport-native-epoll-4-1-90-final-sources-1-jar/netty_epoll_linuxsocket.h

1.243 readline 8.2.1-r1

1.243.1 Available under license :

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document
 must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free

software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers
 to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section
of the Document that deals exclusively with the relationship of the
publishers or authors of the Document to the Document's overall
subject (or to related matters) and contains nothing that could fall
directly within that overall subject. (Thus, if the Document is in
part a textbook of mathematics, a Secondary Section may not explain
any mathematics.) The relationship could be a matter of historical
connection with the subject or with related matters, or of legal,
commercial, philosophical, ethical or political
 position regarding
them.

The ``Invariant Sections'' are certain Secondary Sections whose titles
are designated, as being those of Invariant Sections, in the notice
that says that the Document is released under this License. If a
section does not fit the above definition of Secondary then it is not
allowed to be designated as Invariant. The Document may contain zero
Invariant Sections. If the Document does not identify any Invariant
Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed,
as Front-Cover Texts or Back-Cover Texts, in the notice that says that
the Document is released under this License. A Front-Cover Text may

be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy,
represented in a format whose specification is available to the
general public, that is suitable for revising the document
straightforwardly with generic text editors or (for
 images composed of
pixels) generic paint programs or (for drawings) some widely available
drawing editor, and that is suitable for input to text formatters or
for automatic translation to a variety of formats suitable for input
to text formatters. A copy made in an otherwise Transparent file
format whose markup, or absence of markup, has been arranged to thwart
or discourage subsequent modification by readers is not Transparent.
An image format is not Transparent if used for any substantial amount
of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain
@sc{ascii} without markup, Texinfo input format, La@TeX{} input
format, @acronym{SGML} or @acronym{XML} using a publicly available
@acronym{DTD}, and standard-conforming simple @acronym{HTML},
PostScript or @acronym{PDF} designed for human modification. Examples
of transparent image formats include @acronym{PNG}, @acronym{XCF} and
@acronym{JPG}. Opaque formats
 include proprietary formats that can be
read and edited only by proprietary word processors, @acronym{SGML} or
@acronym{XML} for which the @acronym{DTD} and/or processing tools are
not generally available, and the machine-generated @acronym{HTML},
PostScript or @acronym{PDF} produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in
 another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.)  To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever
 to those of this License. You may not use
technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible.
  You may add other material on the covers in addition.
Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering

more than 100, you must either include a machine-readable Transparent
copy along with each Opaque copy, or state in or with each Opaque copy
a computer-network location from which the general network-using
public has access to download using public-standard network protocols
a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that
 this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from
 those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item

Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in
 the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least
 four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document,
 you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf
 of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the

Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of
 each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History''
in the various original documents, forming one section Entitled
``History''; likewise combine any sections Entitled ``Acknowledgements'',
and any sections Entitled ``Dedications''. You must delete all
sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract
 a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an ``aggregate'' if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these

copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may
 be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original
 version will prevail.

If a section in the Document is Entitled ``Acknowledgements'',
``Dedications'', or ``History'', the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies

you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that
 a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a
version permanently authorizes you to choose that version for the
Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any
World Wide Web server that publishes copyrightable works and also
provides prominent facilities for anybody to edit those works. A
public wiki that anybody can edit is an example of such a server. A
``Massive Multiauthor Collaboration'' (or ``MMC'')
 contained in the
site means any set of copyrightable works thus published on the MMC
site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0

license published by Creative Commons Corporation, a not-for-profit
corporation with a principal place of business in San Francisco,
California, as well as future copyleft versions of that license
published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or
in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this
License, and if all works that were first published under this License
somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the
 MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.'' line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover

Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
                    GNU GENERAL PUBLIC LICENSE
                     Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have

certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is
 not conveying.

 An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

 1. Source Code.

 The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

 A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered
 by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you

with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this
License to anyone who comes into possession of a copy. This
License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years

and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user

actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions

apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

  a) Disclaiming warranty or
limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does

not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

 You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or

modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that

contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17.
Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you

may consider it more useful to permit linking proprietary applications with the library. If this is what you want to
 do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

    GNU GENERAL PUBLIC LICENSE

      Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

   59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed
 to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute

and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

    GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which
 contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute verbatim copies
 of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole
 or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered
 independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based
on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or
executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the
source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such

parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

 6. Each
 time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution
 of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through

any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number
 of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
 EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN
 IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

  END OF TERMS AND CONDITIONS

  How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License,
 or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it

under certain conditions; type `show c' for details.

The hypothetical commands `show w' and

`show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may

be called something other than `show w' and `show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the program, if

necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program

 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989

 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the

library. If this is what you want to do, use the GNU Library General

Public License instead of this License.

1.244 libffi 3.4.4-r2

1.244.1 Available under license :

The libffi source distribution contains certain code that is not part

of libffi, and is only used as tooling to assist with the building and

testing of libffi. This includes the msvcc.sh script used to wrap the

Microsoft compiler with GNU compatible command-line options,

make_sunver.pl, and the libffi test code distributed in the

testsuite/libffi.bhaible directory. This code is distributed with

libffi for the purpose of convenience only, and libffi is in no way

derived from this code.

msvcc.sh an testsuite/libffi.bhaible are both distributed under the

terms of the GNU GPL version 2, as below.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Preamble

The licenses for most software
are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions
that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by

others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program
 or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program
 a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the
 most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose
 permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily
used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the
 scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have
 received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by

modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You
 are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance
 of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the
original copyright
 holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free
 Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY
 AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED

TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve
 this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more
 details.

  You should have received a copy of the GNU General Public License along
  with this program; if not, write to the Free Software Foundation, Inc.,
  51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work
 as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
libffi - Copyright (c) 1996-2022 Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
 CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.245 expat 2.5.0-r1

1.245.1 Available under license :

Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2022 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
 ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.246 libidn 2.3.4-r1

1.246.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

 This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

 0. Additional Definitions.

 As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

 "The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by
the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified
version:

a) under this License, provided that you make a good faith effort to
ensure that, in the event an Application does not supply the
function or data, the facility still operates, and performs
whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of
this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated

material is not limited to numerical parameters,
 data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

  a) Give prominent notice with each copy of the object code that the
  Library is used in it and that the Library and its use are
  covered by this License.

  b) Accompany the object code with a copy of the GNU GPL and this license
  document.

 4. Combined Works.

 You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

  a) Give prominent notice with each copy of the Combined Work that
  the Library is used in it and that the Library and its use are
  covered by this License.

  b) Accompany the Combined Work with a copy of the GNU GPL and this license
  document.

  c) For a Combined Work that
 displays copyright notices during
  execution, include the copyright notice for the Library among
  these notices, as well as a reference directing the user to the
  copies of the GNU GPL and this license document.

  d) Do one of the following:

    0) Convey the Minimal Corresponding Source under the terms of this
    License, and the Corresponding Application Code in a form
    suitable for, and under terms that permit, the user to
    recombine or relink the Application with a modified version of
    the Linked Version to produce a modified Combined Work, in the
    manner specified by section 6 of the GNU GPL for conveying
    Corresponding Source.

    1) Use a suitable shared library mechanism for linking with the
    Library. A suitable mechanism is one that (a) uses at run time
    a copy of the Library already present on the user's computer
    system, and (b) will operate properly with a modified version
    of the Library that is interface-compatible

with the Linked
   Version.

   e) Provide Installation Information, but only if you would otherwise
   be required to provide such information under section 6 of the
   GNU GPL, and only to the extent that such information is
   necessary to install and execute a modified version of the
   Combined Work produced by recombining or relinking the
   Application with a modified version of the Linked Version. (If
   you use option 4d0, the Installation Information must accompany
   the Minimal Corresponding Source and Corresponding Application
   Code. If you use option 4d1, you must provide the Installation
   Information in the manner specified by section 6 of the GNU GPL
   for conveying Corresponding Source.)

   5. Combined Libraries.

   You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined
   library under terms of your
choice, if you do both of the following:

   a) Accompany the combined library with a copy of the same work based
   on the Library, uncombined with any other library facilities,
   conveyed under the terms of this License.

   b) Give prominent notice with the combined library that part of it
   is a work based on the Library, and explaining where to find the
   accompanying uncombined form of the same work.

   6. Revised Versions of the GNU Lesser General Public License.

   The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

   Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option
   of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser

General Public License ever published by the Free Software Foundation.

 If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

<div align="center">

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

</div>

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,

whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

 Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

 You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
   stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
   charge to all third parties under the
 terms of this License.

  d) If a facility in the modified Library refers to a function or a
   table of data to be supplied by an application program that uses

---

the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the

object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is
   interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
   least three years, to give the same user the materials
   specified in Subsection 6a, above, for a charge no more
   than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
   from a designated place, offer equivalent access to copy the above

specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or

distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,

BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

   <one line to give the library's name and a brief idea of what it does.>
   Copyright (C) <year> <name of author>

   This library is free software; you can redistribute it and/or
   modify it under the terms of the GNU Lesser General Public
   License as published by the Free Software Foundation; either
   version 2.1 of the License, or (at your option) any later version.

   This library is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
   Lesser General Public License for more details.

   You should have received a copy of the GNU Lesser General Public
   License along with this library; if not, write to the Free Software
   Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
   USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
               GNU GENERAL PUBLIC LICENSE
                  Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                  Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and

(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
   received the program in object code or executable form with such
   an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such

parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to

decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                        NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,

REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute

it

under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.
Libidn COPYING -- Explanation of licensing conditions.
Copyright (C) 2002-2021 Simon Josefsson
See the end for copying conditions.

The source code for the C library (libidn.a or libidn.so), the C#
library (Libidn.dll) and the Java library (libidn-*.jar) are licensed
under the terms of either the GNU General Public License version 2.0
or later (see the file COPYINGv2) or the GNU Lesser General Public
License version 3.0 or later (see the file COPYING.LESSERv3), or both
in parallel as here.

The author of the Java library has agreed to also distribute it under
the Apache License Version 2.0 (see the file java/LICENSE-2.0).

The manual is licensed under the GNU Free Documentation License,
Version 1.3 or any later.

The command line tool, self tests, examples, and other auxiliary
files, are licensed under the GNU General Public License version 3.0
or later.

Other files are licensed as indicated in each file.

There may be exceptions to these general rules, see each file for
precise information.

For
 any copyright year range specified as YYYY-ZZZZ in this package
note that the range specifies every single year in that closed interval.

Copying and distribution of this file, with or without modification,
are permitted in any medium without royalty provided the copyright
notice and this notice are preserved.
License below is copied from <http://www.unicode.org/copyright.html>,
last updated 7 July 2004, and claims to apply to all Unicode versions.

According to a post on emacs-devel,
<http://lists.gnu.org/archive/html/emacs-devel/2004-04/msg00036.html>,
RMS believe it is a free license:

    This is a free license, and even compatible with the GPL (if
    that ever matters). Yes, we can use it now.

EXHIBIT 1
UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/ and
http://www.unicode.org/reports/. Unicode Software includes any source
code under the directories http://www.unicode.org/Public/ and
http://www.unicode.org/reports/.

NOTICE TO USER: Carefully read the following legal agreement. BY
DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"), YOU
UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE TERMS AND
CONDITIONS
 OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT DOWNLOAD,
INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2004 Unicode, Inc. All rights reserved. Distributed
under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and associated documentation (the

"Data Files") or Unicode software and associated documentation (the
"Software") to deal in the Data Files or Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, and/or sell copies of the Data Files or Software,
and to permit persons to whom the Data Files or Software are furnished
to do so, provided that (a) the above copyright notice(s) and this
permission notice appear in all copies of the Data Files or Software,
(b) both the above copyright notice(s) and this permission notice
appear in associated
 documentation, and (c) there is clear notice in
each modified Data File or in the Software as well as in the
documentation associated with the Data File(s) or Software that the
data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR
ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR
SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings
 in these Data Files or Software without prior
written authorization of the copyright holder.

                        Apache License
                   Version 2.0, January 2004
                http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding

those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

  for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

 5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.

 6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the
content of the NOTICE file.

 7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the
    appropriateness of using or redistributing the Work and assume any
    risks associated with Your exercise of permissions under this License.

 8. Limitation of Liability. In no event and under no legal theory,
    whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as

changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                    TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without

permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is
 not conveying.

 An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

 1. Source Code.

 The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

 A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally

available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered
 by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or

similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years
and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and
  only if you received the object code with such an offer, in accord
  with subsection 6b.

  d) Convey the object code by offering access from a designated

place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the

User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty or

limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or

modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that

transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this

License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may

not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"

WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17.
Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to
 do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.247 bzip2 1.0.8-r5

1.247.1 Available under license :

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2019 Julian R Seward. All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software. If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
   products derived from this software without specific
   prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.248 libunistring 1.1-r1

1.248.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of

protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

                    TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is
 not conveying.

 An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

 1. Source Code.

 The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

 A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,

such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered
 by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to

the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent

works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years
and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and
  only if you received the object code with such an offer, in accord
  with subsection 6b.

  d) Convey the object code by offering access from a designated
  place (gratis or for a charge), and offer equivalent access to the
  Corresponding Source in
the same way through the same place at no
  further charge. You need not require recipients to copy the
  Corresponding Source along with the object code. If the place to
  copy the object code is a network server, the Corresponding Source

may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has

been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty or
 limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and

finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright
holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the

rights

 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the

covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

          END OF TERMS AND CONDITIONS

          How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

   <one line to give the program's name and a brief idea of what it does.>
   Copyright (C) <year> <name of author>

   This program is free software: you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation, either version 3 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
   GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

  <program> Copyright (C) <year> <name of author>
  This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to
 do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
     GNU LESSER GENERAL PUBLIC LICENSE
            Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

 This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

 0. Additional Definitions.

 As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

 An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is
 deemed a mode
of using an interface provided by the Library.

 A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

 The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

 The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

 1. Exception to Section 3 of the GNU GPL.

 You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

 2. Conveying
 Modified Versions.

 If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the
facility is invoked), then you may convey a copy of the modified
version:

 a) under this License, provided that you make a good faith effort to
 ensure that, in the event an Application does not supply the
 function or data, the facility still operates, and performs
 whatever part of its purpose remains meaningful, or

 b) under the GNU GPL, with none of the additional permissions of
 this License applicable to that copy.

 3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data
 structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

  a) Give prominent notice with each copy of the object code that the
  Library is used in it and that the Library and its use are
  covered by this License.

  b) Accompany the object code with a copy of the GNU GPL and this license
  document.

 4. Combined Works.

 You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

  a) Give prominent notice with each copy of the Combined Work that
  the Library is used in it and that the Library and its use are
  covered by this License.

  b) Accompany the Combined Work with a copy of the GNU GPL and this license
  document.

  c) For a Combined Work that displays copyright
 notices during
  execution, include the copyright notice for the Library among
  these notices, as well as a reference directing the user to the
  copies of the GNU GPL and this license document.

  d) Do one of the following:

    0) Convey the Minimal Corresponding Source under the terms of this
    License, and the Corresponding Application Code in a form
    suitable for, and under terms that permit, the user to
    recombine or relink the Application with a modified version of
    the Linked Version to produce a modified Combined Work, in the
    manner specified by section 6 of the GNU GPL for conveying
    Corresponding Source.

    1) Use a suitable shared library mechanism for linking with the

Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible
with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under
terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following

the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

  If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

1.249 libtasn 4.19.0-r1

1.249.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

  The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

  This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

  When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get

it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits

such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system

which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  <one line to give the library's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Lesser General Public
  License as published by the Free Software Foundation; either
  version 2.1 of the License, or (at your option) any later version.

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
                    GNU GENERAL PUBLIC LICENSE
                      Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you

these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

                    TERMS AND CONDITIONS

 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is
 not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered
by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose

of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this
License to anyone who comes into possession of a copy. This
License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a

written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status

of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent

that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty or
limiting liability differently from the
   terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

 those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms

of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

  However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

  Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

  Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

  9. Acceptance Not Required for Having Copies.

  You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,

nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights
granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor
version. For
purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily

for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17.
 Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program

into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to
 do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document
 must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers
 to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political
 position regarding
them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for
 images composed of
pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or

for automatic translation to a variety of formats suitable for input
to text formatters. A copy made in an otherwise Transparent file
format whose markup, or absence of markup, has been arranged to thwart
or discourage subsequent modification by readers is not Transparent.
An image format is not Transparent if used for any substantial amount
of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain
ASCII without markup, Texinfo input format, La@TeX{} input
format, SGML or XML using a publicly available
DTD, and standard-conforming simple HTML,
PostScript or PDF designed for human modification. Examples
of transparent image formats include PNG, XCF and
JPG@. Opaque formats include proprietary formats that can be
read and edited only by proprietary word
 processors, SGML or
XML for which the DTD and/or processing tools are
not generally available, and the machine-generated HTML,
PostScript or PDF produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'',
 or ``History''.)  To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item

VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies
 you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have
printed covers) of the Document, numbering more than 100, and the
Document's license notice requires Cover Texts, you must enclose the
copies in covers that carry, clearly and legibly, all these Cover
Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on
the back cover. Both covers must also clearly and legibly identify
you as the publisher of these copies. The front cover must present
the full title with all words of the title equally prominent and
visible. You may add other material on the covers in addition.
Copying with changes limited to the covers, as long as they preserve
the
 title of the Document and satisfy these conditions, can be treated
as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit
legibly, you should put the first ones listed (as many as fit
reasonably) on the actual cover, and continue the rest onto adjacent
pages.

If you publish or distribute Opaque copies of the Document numbering
more than 100, you must either include a machine-readable Transparent
copy along with each Opaque copy, or state in or with each Opaque copy
a computer-network location from which the general network-using
public has access to download using public-standard network protocols
a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute

an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same
 title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the

terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the
 Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any
 section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant
 Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old
 one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by
adding at the end of it, in parentheses, the name of the original

author or publisher of that section if
 known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History''
in the various original documents, forming one section Entitled
``History''; likewise combine any sections Entitled ``Acknowledgements'',
and any sections Entitled ``Dedications''. You must delete all
sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License
 into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an ``aggregate'' if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic
 form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item

TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'',
``Dedications'', or ``History'', the requirement
 (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for
 any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does

not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and
 conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a
version permanently authorizes you to choose that version for the
Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any
World Wide Web server that publishes copyrightable works and also
provides prominent facilities for anybody to edit those works. A
public wiki that anybody can edit is an example of such a server. A
``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the
site means any set of copyrightable works thus published on the MMC
site.

``CC-BY-SA'' means the Creative Commons
 Attribution-Share Alike 3.0
license published by Creative Commons Corporation, a not-for-profit
corporation with a principal place of business in San Francisco,
California, as well as future copyleft versions of that license
published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or
in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this
License, and if all works that were first published under this License

somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License
 in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{ }Texts.''@: line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant
 Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of

free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
LICENSING
=========

The libtasn1 library is released under the GNU Lesser General Public
License (LGPL) version 2.1 or later; see [COPYING.LESSER](doc/COPYING.LESSER)
for the license terms.

The GNU LGPL applies to the main libtasn1 library, while the
included applications library are under the GNU GPL version 3.
The libtasn1 library is located in the lib directory, while the applications
in src/.

The documentation in doc/ is under the GNU FDL license 1.3.

For any copyright year range specified as YYYY-ZZZZ in this package
note that the range specifies every single year in that closed interval.

1.250 libbsd 0.11.7-r1

1.250.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Files:
*
Copyright:
Copyright 2004-2006, 2008-2022 Guillem Jover <guillem@hadrons.org>
License: BSD-3-clause

Files:
man/arc4random.3bsd
Copyright:
Copyright 1997 Niels Provos <provos@physnet.uni-hamburg.de>
All rights reserved.
License: BSD-4-clause-Niels-Provos
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
must display the following acknowledgement:
This product includes software developed
by Niels Provos.
4. The name of the author may not be used to endorse or promote products
derived from this software without specific prior written permission.
.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files:
include/bsd/err.h
include/bsd/stdlib.h
include/bsd/sys/param.h
include/bsd/unistd.h
src/bsd_getopt.c
 src/err.c
src/fgetln.c
src/progname.c
Copyright:
Copyright 2005, 2008-2012, 2019 Guillem Jover <guillem@hadrons.org>
Copyright 2005 Hector Garcia Alvarez
Copyright 2005 Aurelien Jarno
Copyright 2006 Robert Millan
Copyright 2018 Facebook, Inc.
License: BSD-3-clause

Files:
include/bsd/netinet/ip_icmp.h
include/bsd/sys/bitstring.h
include/bsd/sys/queue.h
include/bsd/sys/time.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd

man/fpurge.3bsd
man/funopen.3bsd
man/getbsize.3bsd
man/heapsort.3bsd
man/nlist.3bsd
man/pwcache.3bsd
man/queue.3bsd
man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd
man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslcpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/pwcache.c
src/radixsort.c
src/setmode.c
src/strmode.c
src/strnstr.c
src/strtoi.c
 src/strtou.c
src/unvis.c
Copyright:
Copyright 1980, 1982, 1986, 1989-1994
    The Regents of the University of California. All rights reserved.
Copyright 1992 Keith Muller.
Copyright 2001 Mike Barcroft <mike@FreeBSD.org>
.

Some code is derived from software contributed to Berkeley by
the American National Standards Committee X3, on Information
Processing Systems.
.

Some code is derived from software contributed to Berkeley by
Peter McIlroy.
.

Some code is derived from software contributed to Berkeley by
Ronnie Kon at Mindcraft Inc., Kevin Lew and Elmer Yglesias.
.

Some code is derived from software contributed to Berkeley by
Dave Borman at Cray Research, Inc.

.

Some code is derived from software contributed to Berkeley by
Paul Vixie.
.

Some code is derived from software contributed to Berkeley by
Chris Torek.
.

Copyright UNIX System Laboratories, Inc.
All or some portions of this file are derived from material licensed
to the University of California
 by American Telephone and Telegraph
Co. or Unix System Laboratories, Inc. and are reproduced herein with
the permission of UNIX System Laboratories, Inc.
License: BSD-3-clause-Regents

Files:
src/vis.c
Copyright:
Copyright 1989, 1993
   The Regents of the University of California. All rights reserved.
.

Copyright 1999, 2005 The NetBSD Foundation, Inc.
All rights reserved.
License: BSD-3-clause-Regents and BSD-2-clause-NetBSD

Files:
include/bsd/libutil.h
Copyright:
Copyright 1996 Peter Wemm <peter@FreeBSD.org>.
All rights reserved.
Copyright 2002 Networks Associates Technology, Inc.
All rights reserved.
License: BSD-3-clause-author

Files:
man/timeradd.3bsd
Copyright:
Copyright 2009 Jukka Ruohonen <jruohonen@iki.fi>
Copyright 1999 Kelly Yancey <kbyanc@posi.net>
All rights reserved.
License: BSD-3-clause-John-Birrell
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are
 met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the author nor the names of any co-contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.
.

THIS SOFTWARE IS PROVIDED BY JOHN BIRRELL AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES;
 LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Files:
man/setproctitle.3bsd
Copyright:
Copyright 1995 Peter Wemm <peter@FreeBSD.org>
All rights reserved.
License: BSD-5-clause-Peter-Wemm
Redistribution and use in source and binary forms, with or without
modification, is permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice immediately at the beginning of the file, without modification,
   this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
 3. This work was done expressly for inclusion into FreeBSD. Other use
   is permitted provided this notation is included.
4. Absolutely no warranty of function or purpose is made by the author
   Peter Wemm.
5. Modifications may be freely made to this file providing the above
   conditions are met.

Files:
include/bsd/stringlist.h
man/fmtcheck.3bsd
man/humanize_number.3bsd
man/stringlist.3bsd
man/timeval.3bsd
src/fmtcheck.c

src/humanize_number.c
src/stringlist.c
src/strtonum.c
Copyright:
Copyright 1994, 1997-2000, 2002, 2008, 2010, 2014
    The NetBSD Foundation, Inc.
Copyright 2013 John-Mark Gurney <jmg@FreeBSD.org>
.

Some code was contributed to The NetBSD Foundation by Allen Briggs.
.

Some code was contributed to The NetBSD Foundation by Luke Mewburn.
.

Some code is derived from software contributed to The NetBSD Foundation
by Jason R. Thorpe of the Numerical Aerospace Simulation Facility,
NASA Ames Research Center, by Luke
 Mewburn and by Tomas Svensson.
.

Some code is derived from software contributed to The NetBSD Foundation
by Julio M. Merino Vidal, developed as part of Google's Summer of Code
2005 program.
.

Some code is derived from software contributed to The NetBSD Foundation
by Christos Zoulas.
.

Some code is derived from software contributed to The NetBSD Foundation
by Jukka Ruohonen.
License: BSD-2-clause-NetBSD

Files:
include/bsd/sys/endian.h
man/byteorder.3bsd
man/closefrom.3bsd
man/expand_number.3bsd
man/flopen.3bsd
man/getpeereid.3bsd
man/pidfile.3bsd
src/expand_number.c
src/pidfile.c
src/reallocf.c
src/timeconv.c
Copyright:
Copyright 1998, M. Warner Losh <imp@freebsd.org>
.

Copyright 2001 Dima Dorfman.
.

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Files:
include/bsd/sys/tree.h
man/fparseln.3bsd
man/tree.3bsd
 src/fparseln.c
Copyright:
Copyright 1997 Christos Zoulas.
All rights reserved.
.
Copyright 2002 Niels Provos <provos@citi.umich.edu>
All rights reserved.
License: BSD-2-clause-author

Files:
include/bsd/readpassphrase.h
man/readpassphrase.3bsd
man/strlcpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_linux.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/freezero.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
src/getentropy_solaris.c
src/getentropy_win.c
src/readpassphrase.c
src/reallocarray.c
src/recallocarray.c
src/strlcat.c

src/strlcpy.c

test/explicit_bzero.c

test/strtonum.c

Copyright:

Copyright 2004 Ted Unangst and Todd Miller

All rights reserved.

.

Copyright 1996 David Mazieres <dm@uun.org>

Copyright 1998, 2000-2002, 2004-2005, 2007, 2010, 2012-2015

  Todd C. Miller <Todd.Miller@courtesan.com>

Copyright

 2004 Ted Unangst

Copyright 2004 Otto Moerbeek <otto@drijf.net>

Copyright 2008 Damien Miller <djm@openbsd.org>

Copyright 2008, 2010-2011, 2016-2017 Otto Moerbeek <otto@drijf.net>

Copyright 2013 Markus Friedl <markus@openbsd.org>

Copyright 2014 Bob Beck <beck@obtuse.com>

Copyright 2014 Brent Cook <bcook@openbsd.org>

Copyright 2014 Pawel Jakub Dawidek <pjd@FreeBSD.org>

Copyright 2014 Theo de Raadt <deraadt@openbsd.org>

Copyright 2014 Google Inc.

Copyright 2015 Michael Felt <aixtools@gmail.com>

Copyright 2015, 2022 Guillem Jover <guillem@hadrons.org>

License: ISC

Permission to use, copy, modify, and distribute this software for any

purpose with or without fee is hereby granted, provided that the above

copyright notice and this permission notice appear in all copies.

.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES

WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR

 BE LIABLE FOR

ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES

WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN

ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF

OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Files:

src/inet_net_pton.c

Copyright:

Copyright 1996 by Internet Software Consortium.

License: ISC-Original

Permission to use, copy, modify, and distribute this software for any

purpose with or without fee is hereby granted, provided that the above

copyright notice and this permission notice appear in all copies.

.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS

ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES

OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS,
 WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Files:
src/setproctitle.c
Copyright:
Copyright 2010 William Ahern
Copyright 2012 Guillem Jover <guillem@hadrons.org>
License: Expat
Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the
following conditions:
.
The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.
.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.

Files:
src/explicit_bzero.c
src/chacha_private.h
Copyright:
None
License: public-domain
Public domain.

Files:
man/mdX.3bsd
Copyright:
None
License: Beerware
"THE BEER-WARE LICENSE" (Revision 42):
<phk@login.dkuug.dk> wrote this file. As long as you retain this notice you

can do whatever you want with this stuff. If we meet some day, and you think
this stuff is worth it, you can buy me a beer in return.   Poul-Henning Kamp

License: BSD-3-clause-Regents
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the
 above copyright
    notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.
.
THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

License: BSD-3-clause-author
Redistribution and use in source and binary forms, with or without
modification, is permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
    products derived from this software without specific prior written
    permission.
.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY
 EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License: BSD-3-clause
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary
 form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.
.
THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License: BSD-2-clause-NetBSD
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
.
THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,

PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

License: BSD-2-clause-author
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License: BSD-2-clause
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following
 disclaimer in the
   documentation and/or other materials provided with the distribution.
.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.251 libmd 1.0.4-r2

1.251.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Files:
*
Copyright:
Copyright 2009, 2011, 2016 Guillem Jover <guillem@hadrons.org>
License: BSD-3-clause
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.
.
THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR
 PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files:
include/sha2.h
src/sha2.c
Copyright:
Copyright 2000-2001, Aaron D. Gifford
All rights reserved.
License: BSD-3-clause-Aaron-D-Gifford
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce
 the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.
.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTOR(S) ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTOR(S) BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Files:
include/rmd160.h
src/rmd160.c
Copyright:
Copyright 2001 Markus Friedl. All rights reserved.
License: BSD-2-clause
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE
 FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF

THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files:

src/md2.c

Copyright:

Copyright (c) 2001 The NetBSD Foundation, Inc.

All rights reserved.

.

This code is derived from software contributed to The NetBSD Foundation

by Andrew Brown.

License: BSD-2-clause-NetBSD

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions

are met:

1. Redistributions of source code must retain the above copyright

   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must

 reproduce the above copyright

   notice, this list of conditions and the following disclaimer in the

   documentation and/or other materials provided with the distribution.

.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS

``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED

TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS

BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF

SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS

INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN

CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE

POSSIBILITY OF SUCH DAMAGE.

Files:

man/rmd160.3

man/sha1.3

man/sha2.3

Copyright:

 Copyright 1997, 2003, 2004 Todd C. Miller <Todd.Miller@courtesan.com>

License: ISC

Permission to use, copy, modify, and distribute this software for any

purpose with or without fee is hereby granted, provided that the above

copyright notice and this permission notice appear in all copies.

.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES

WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR

ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES

WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Files:
man/mdX.3
src/helper.c
Copyright:
Poul-Henning Kamp <phk@login.dkuug.dk>
License: Beerware
"THE BEER-WARE LICENSE" (Revision 42):
<phk@login.dkuug.dk> wrote this file. As long as you retain
 this notice you
can do whatever you want with this stuff. If we meet some day, and you think
this stuff is worth it, you can buy me a beer in return.   Poul-Henning Kamp

Files:
include/md4.h
src/md4.c
Copyright:
Colin Plumb
Todd C. Miller
License: public-domain-md4
This code implements the MD4 message-digest algorithm.
The algorithm is due to Ron Rivest. This code was
written by Colin Plumb in 1993, no copyright is claimed.
This code is in the public domain; do with it what you wish.
Todd C. Miller modified the MD5 code to do MD4 based on RFC 1186.

Files:
include/md5.h
src/md5.c
Copyright:
Colin Plumb
License: public-domain-md5
This code implements the MD5 message-digest algorithm.
The algorithm is due to Ron Rivest. This code was
written by Colin Plumb in 1993, no copyright is claimed.
This code is in the public domain; do with it what you wish.

Files:
include/sha1.h
src/sha1.c
Copyright:
Steve Reid <steve@edmweb.com>
License: public-domain-sha1
100% Public

Domain

1.252 brotli 1.0.9-r14
1.252.1 Available under license :
Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF
 OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.253 pam 1.5.2-r10
1.253.1 Available under license :
Unless otherwise *explicitly* stated the following text describes the
licensed conditions under which the contents of this Linux-PAM release
may be distributed:

Redistribution and use in source and binary forms of Linux-PAM, with
or without modification, are permitted provided that the following
conditions are met:

1. Redistributions of source code must retain any existing copyright
  notice, and this entire permission notice in its entirety,
  including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current
  copyright notices, this list of conditions, and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

3. The name of any author may not be used to endorse or promote
   products derived from this software without their specific prior
   written permission.

ALTERNATIVELY, this product may be distributed
 under the terms of the
GNU General Public License, in which case the provisions of the GNU
GPL are required INSTEAD OF the above restrictions. (This clause is
necessary due to a potential conflict between the GNU GPL and the
restrictions contained in a BSD-style copyright.)

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

Unless otherwise *explicitly* stated the following text describes the
licensed conditions under which the contents of this libpamc release
may be distributed:

Redistribution and use in source and binary forms of libpamc,
with or without modification, are permitted provided that the
following conditions are met:

1. Redistributions of source code must retain any existing copyright
   notice, and this entire permission notice in its entirety,
   including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current
   copyright notices, this list of conditions, and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. The name of any author may not be used to endorse or promote
   products derived from this software without their specific prior
   written permission.

ALTERNATIVELY, this product may be distributed under

the terms of the

GNU Library General Public License (LGPL), in which case the

provisions of the GNU LGPL are required INSTEAD OF the above

restrictions. (This clause is necessary due to a potential conflict

between the GNU LGPL and the restrictions contained in a BSD-style

copyright.)

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED

WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT,

INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,

BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS

OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND

ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR

TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE

USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH

DAMAGE.

1.254 pax-utils 1.3.7-r1

1.254.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public

License is intended to guarantee your freedom to share and change free

software--to make sure the software is free for all its users. This

General Public License applies to most of the Free Software

Foundation's software and to any other program whose authors commit to

using it. (Some other Free Software Foundation software is covered by

the GNU Library General Public License instead.) You can apply it to

your programs, too.

When we speak of free software, we are referring to freedom, not

price. Our General Public Licenses

are designed to make sure that you

have the freedom to distribute copies of free software (and charge for

this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission
 to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program
 or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in

the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute
 verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish,
that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,

and can
 be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program
 (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution and only if you
  received the program
 in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include

anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled
 to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based
 on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit

royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute
 software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies
 a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free

programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

   NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED
 BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY
 OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

  How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version
2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical
 commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.255 libcap-ng 0.8.3-r3

1.255.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
   51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

            Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors
 who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,

whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.
^L
 Finally,
 software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore
 permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it
becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library
 in order to run.
^L
        GNU LESSER GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly
 into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control
compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it,
 in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
    charge to all third parties under
the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and
 can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms
 of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.
^L
 Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the
 complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a
 "work that uses the
library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may

distribute
 the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany the work with the complete corresponding
  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
  Library. A suitable mechanism is one that (1) uses at run time a
  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)

 will operate properly with a modified version of the library, if
  the user installs one, as long as the modified version is
  interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials
  specified in Subsection 6a, above, for a charge no more
  than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything
 that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
^L
 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined
 with any other library
  facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited
 by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.
^L
  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License,
 they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply, and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software
 distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License
may add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

  13. The Free Software Foundation
 may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.
^L
  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for
 this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN

WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS
 PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

              END OF TERMS AND CONDITIONS
^L
        How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

 To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source
 file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

    <one line to give the library's name and a brief idea of what it
does.>
   Copyright (C) <year> <name of author>

   This library is free software; you can redistribute it and/or
   modify it under the terms of the GNU Lesser General Public
   License as published by the Free Software Foundation; either
   version 2 of the License, or (at your option) any later version.

   This library is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
   Lesser General Public License for more details.

   You should have received a copy of the GNU Lesser General Public
   License along with this library; if not, write to the Free Software
   Foundation, Inc., 51 Franklin Street, Fifth Floor,
 Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
                    GNU LESSER GENERAL PUBLIC LICENSE
                        Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

(This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.)

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of

it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits

such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials
  specified in Subsection 6a, above, for a charge no more
  than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
  from a designated place, offer equivalent access to copy the above
  specified materials from the same place.

  e) Verify that the user has already received a copy of these
  materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any
other library
  facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system

which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  {description}
  Copyright (C) {year} {fullname}

  This library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Lesser General Public
  License as published by the Free Software Foundation; either
  version 2.1 of the License, or (at your option) any later version.

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic
and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random
Hacker.

{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
     GNU GENERAL PUBLIC LICENSE
        Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
   59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

     Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed
 to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute
and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

    GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which
contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of

running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute verbatim copies
 of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole
 or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered
 independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based
 on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution and only if you
  received the program in object code or
 executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the
 source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

 6. Each
 time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution
 of the Program by
all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through
 any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number
 of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and

of promoting the sharing and reuse of software generally.

   NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
 EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN
 IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

   <one line to give the program's name and a brief idea of what it does.>
   Copyright (C) <year> <name of author>

   This program is free software; you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation; either version 2 of the License,
 or
   (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and
 `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.256 libeconf 0.5.2-r1

1.256.1 Available under license :

Copyright (c) 2019 SUSE LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE
 OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: libeconf
Source: https://github.com/openSUSE/libeconf
Files-Excluded:
 docs

Files: *
Copyright: 2019-2021 SUSE LLC
License: Expat

Files: debian/*
Copyright: 2020-2022 Andreas Henriksson <andreas@fatal.se>
License: Expat

License: Expat
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
.
The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.
.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT

NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.257 libpng 1.6.39-r3

1.257.1 Available under license :

Copyright (c) 1998-2008 Greg Roelofs. All rights reserved.

This software is provided "as is," without warranty of any kind,
express or implied. In no event shall the author or contributors
be held liable for any damages arising in any way from the use of
this software.

The contents of this file are DUAL-LICENSED. You may modify and/or
redistribute this software according to the terms of one of the
following two licenses (at your option):

LICENSE 1 ("BSD-like with advertising clause"):

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute
it freely, subject to the following restrictions:

1. Redistributions of source code must retain the above copyright
   notice, disclaimer, and this list of conditions.
2. Redistributions in binary
form must reproduce the above copyright
   notice, disclaimer, and this list of conditions in the documenta-
   tion and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this
   software must display the following acknowledgment:

   This product includes software developed by Greg Roelofs
   and contributors for the book, "PNG: The Definitive Guide,"
   published by O'Reilly and Associates.

LICENSE 2 (GNU GPL v2 or later):

This program is free software; you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software Foundation,
Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

 ----

pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

copyright (C) 1999-2019 by Willem van Schaik <willem at schaik dot com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

The software is provided "as is", without warranty of any kind, express or
implied, including but not limited to the warranties of merchantability,
fitness for a particular purpose and noninfringement. In no event shall the
authors or copyight holders be liable for any claim, damages or other
liability,
 whether in an action of contract, tort or otherwise, arising from,
out of or in connection with the software or the use or other dealings in the
software.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
  59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and

modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to

this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor
 to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU
 OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the
 GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
 it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is
 what you want to do, use the GNU Library General
Public License instead of this License.
COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=======================================

PNG Reference Library License version 2
----

* Copyright (c) 1995-2022 The PNG Reference Library Authors.
* Copyright (c) 2018-2022 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement. In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted
 to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software. If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)

----

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer
 and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

    Simon-Pierre Cadieux
    Eric S. Raymond
    Mans Rullgard
    Cosmin Truta
    Gilles Vollant
    James Yu
    Mandar Sahastrabuddhe
    Google Inc.
    Vadim Barkov

and with the following additions to the disclaimer:

    There is no warranty against interference with your enjoyment of
    the library or against infringement. There is no warranty that our
    efforts or the library will fulfill any of your particular purposes
    or needs. This library is provided with all faults, and the entire
    risk of satisfactory quality, performance, accuracy, and effort is
    with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson,
 are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

    Tom Lane
    Glenn Randers-Pehrson
    Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as

libpng-0.88, with the following individuals added to the list of
Contributing Authors:

  John Bowler
  Kevin Bracey
  Sam Bushell
  Magnus Holmgren
  Greg Roelofs
  Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

  Andreas Dilger
  Dave Martindale
  Guy Eric Schalnat
  Paul Schmidt
  Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
   be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from
 any
   source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,

without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.

1.258 fontconfig 2.14.2-r3

1.258.1 Available under license :

fontconfig/COPYING

Copyright 2000,2001,2002,2003,2004,2006,2007 Keith Packard
Copyright 2005 Patrick Lam
Copyright 2007 Dwayne Bailey and Translate.org.za
Copyright 2009 Roozbeh Pournader
Copyright 2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020 Red Hat, Inc.
Copyright 2008 Danilo egan
Copyright 2012 Google, Inc.

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of the author(s) not be used in
advertising or publicity pertaining to distribution of the software without
specific, written prior permission. The authors make no
representations about the suitability of this software for any purpose. It
is provided "as is" without express or implied warranty.

THE AUTHOR(S) DISCLAIMS ALL WARRANTIES WITH
 REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

----
fontconfig/fc-case/CaseFolding.txt

2019 Unicode, Inc.
Unicode and the Unicode Logo are registered trademarks of Unicode, Inc. in the U.S. and other countries.
For terms of use, see http://www.unicode.org/terms_of_use.html

----

fontconfig/src/fcatomic.h

/*
* Mutex operations. Originally copied from HarfBuzz.
*
* Copyright 2007 Chris Wilson
* Copyright 2009,2010 Red Hat, Inc.
* Copyright 2011,2012,2013 Google, Inc.
*
 * Permission is hereby granted, without written agreement and without
* license or royalty fees, to use, copy, modify, and distribute this
* software and its documentation for any purpose, provided that the
* above copyright notice and the following two paragraphs appear in
* all copies of this software.
*
* IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
* DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
* ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
* IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
* DAMAGE.
*
* THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,
* BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
* FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS
* ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
* PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.
*
* Contributor(s):
* Chris Wilson
 <chris@chris-wilson.co.uk>
* Red Hat Author(s): Behdad Esfahbod
* Google Author(s): Behdad Esfahbod
*/

----

fontconfig/src/fcfoundry.h

/*
 Copyright 2002-2003 by Juliusz Chroboczek

 Permission is hereby granted, free of charge, to any person obtaining a copy
 of this software and associated documentation files (the "Software"), to deal
 in the Software without restriction, including without limitation the rights
 to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 copies of the Software, and to permit persons to whom the Software is
 furnished to do so, subject to the following conditions:

----

fontconfig/src/fcmd5.h

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update
 as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

----

fontconfig/src/fcmutex.h

/*
* Atomic int and pointer operations. Originally copied from HarfBuzz.
*
* Copyright 2007 Chris Wilson
* Copyright 2009,2010 Red Hat, Inc.
* Copyright 2011,2012,2013 Google, Inc.
*
* Permission is hereby granted, without written agreement and without
* license or royalty fees, to use, copy, modify, and distribute this

----
fontconfig/src/ftglue.[ch]

/* ftglue.c: Glue code for compiling the OpenType code from
*   FreeType 1 using only the public API of FreeType 2
*
* By David Turner, The FreeType Project (www.freetype.org)
*
* This code is explicitely put in the public domain
*
* ==
*
* the OpenType
 parser codes was originally written as an extension to
* FreeType 1.x. As such, its source code was embedded within the library,
* and used many internal FreeType functions to deal with memory and
* stream i/o.
*
* When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,
* which basically means that some macro tricks were performed in order to
* directly access FT2 _internal_ functions.
*
* these functions were never part of FT2 public API, and _did_ change between
* various releases. This created chaos for many users: when they upgraded the

* FreeType library on their system, they couldn't run Gnome anymore since
* Pango refused to link.
*
* Very fortunately, it's possible to completely avoid this problem because
* the FT_StreamRec and FT_MemoryRec structure types, which describe how
* memory and stream implementations interface with the rest of the font
* library, have always been part of the public API, and never changed.
*
* What we do
 thus is re-implement, within the OpenType parser, the few
* functions that depend on them. This only adds one or two kilobytes of
* code, and ensures that the parser can work with _any_ version
* of FreeType installed on your system. How sweet... !
*
* Note that we assume that Pango doesn't use any other internal functions
* from FreeType. It used to in old versions, but this should no longer
* be the case. (crossing my fingers).
*
* - David Turner
* - The FreeType Project (www.freetype.org)
*
* PS: This "glue" code is explicitely put in the public domain
*/

1.259 jsr305 3.0.2

1.259.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2005 Brian Goetz
* Released under the Creative Commons Attribution License
*   (http://creativecommons.org/licenses/by/2.5)
* Official home: http://www.jcip.net
*/

Found in path(s):
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/ThreadSafe.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/NotThreadSafe.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/Immutable.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/GuardedBy.java

1.260 json-java json-java 20230227

1.260.1 Available under license :

Public Domain.

1.261 ca-certificates 20230506-r0

1.261.1 Available under license :

No license file was found, but licenses were detected in source scan.

* You may opt to use, copy, modify, merge, publish, distribute and/or sell
* furnished to do so, under the terms of the COPYING file.

Found in path(s):
* /opt/cola/permits/1667253608_1683577718.267003/0/ca-certificates-20230506-tar-bz2/ca-certificates-20230506/mk-ca-bundle.pl
No license file was found, but licenses were detected in source scan.

/* c_rehash.c - Create hash symlinks for certificates
* C implementation based on the original Perl and shell versions
*
* Copyright (c) 2013-2014 Timo Teräs <timo.teras@iki.fi>
* All rights reserved.
*
* This software is licensed under the MIT License.
* Full license available at: http://opensource.org/licenses/MIT
*/

Found in path(s):
* /opt/cola/permits/1667253608_1683577718.267003/0/ca-certificates-20230506-tar-bz2/ca-certificates-20230506/c_rehash.c

1.262 ncurses 6.4_p20230506-r0

1.262.1 Available under license :

Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Copyright: 2017-2022,2023 Thomas E. Dickey
Copyright: 1998-2016,2017 Free Software Foundation, Inc.
License: X11

Files: aclocal.m4 package
Copyright: 2003-2020,2023 by Thomas E. Dickey
License: X11

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
 in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization.

Files: install-sh
Copyright: 1994 X Consortium
License: X11

Permission is hereby granted, free of charge, to any person obtaining
 a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN

AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

 Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
tium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in '/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8
Copyright 2018-2022,2023 Thomas E. Dickey
Copyright 1998-2017,2018 Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER
 IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written

authorization.

-- vile:txtmode fc=72
-- $Id: COPYING,v 1.12 2023/01/07 17:55:53 tom Exp $
Upstream source https://invisible-island.net/ncurses/Ada95.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Copyright: 2017-2022,2023 by Thomas E. Dickey
Copyright: 1998-2016,2017 Free Software Foundation, Inc.
License: X11

Files: aclocal.m4 package
Copyright: 2010-2020,2021 by Thomas E. Dickey
License: X11

  Permission is hereby granted, free of charge, to any person obtaining a
  copy of this software and associated documentation files (the
  "Software"), to deal in the Software without restriction, including
  without limitation the rights to use, copy, modify, merge, publish,
  distribute, distribute with modifications, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included

  in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
  OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
  IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
  DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
  OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
  THE USE OR OTHER DEALINGS IN THE SOFTWARE.

  Except as contained in this notice, the name(s) of the above copyright
  holders shall not be used in advertising or otherwise to promote the
  sale, use or other dealings in this Software without prior written
  authorization.

Files: install-sh
Copyright: 1994 X Consortium
License: X11

Permission is hereby granted, free of charge, to any person obtaining a
copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except
as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
tium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in '/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Copyright: 2017-2022,2023 by Thomas E. Dickey
Copyright: 1998-2016,2017 Free Software Foundation, Inc.
License: X11

Files: aclocal.m4 package
Copyright: 1996-2022,2023 by Thomas E. Dickey
License: X11

Files: doc/html/NCURSES-Programming-HOWTO.html
Copyright: 2001 by Pradeep Padala
License: X11

   Permission is hereby granted, free of charge, to any person obtaining a
   copy of this software and associated documentation files (the
   "Software"), to deal in the Software without restriction, including
   without limitation the rights to use, copy, modify, merge, publish,
   distribute, distribute with modifications, sublicense, and/or sell
   copies of the Software, and to permit persons to whom the Software
is
   furnished to do so, subject to the following conditions:

   The above copyright notice and this permission notice shall be included
   in all copies or substantial portions of the Software.

   THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
   OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
   MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
   IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
   DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
   OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
   THE USE OR OTHER DEALINGS IN THE SOFTWARE.

   Except as contained in this notice, the name(s) of the above copyright
   holders shall not be used in advertising or otherwise to promote the
   sale, use or other dealings in this Software without prior written
   authorization.

Files:
 install-sh
Copyright: 1994 X Consortium
License: X11

   Permission is hereby granted, free of charge, to any person obtaining a copy
   of this software and associated documentation files (the "Software"), to
   deal in the Software without restriction, including without limitation the
   rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
   sell copies of the Software, and to permit persons to whom the Software is
   furnished to do so, subject to the following conditions:

   The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF
CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
tium.

Files: progs/tset.c ncurses/tinfo/read_termcap.c
Copyright: 1980,1991,1992,1993 The Regents of the University of California.
License: BSD

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list
of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

-- vile: txtmode file-encoding=utf-8

1.263 apk-tools 2.14.0-r2

1.263.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share
and change it. By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users. This General Public License applies to
most of the Free Software Foundation's software and to any other program whose
authors commit to using it. (Some other Free Software Foundation software
is covered by the GNU Lesser General Public License instead.) You can apply
it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
General Public Licenses are designed to make sure that you have the
 freedom
to distribute copies of free software (and charge for this service if you
wish), that you receive source code or can get it if you want it, that you
can change the software or use pieces of it in new free programs; and that
you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to
deny you these rights or to ask you to surrender the rights. These restrictions
translate to certain responsibilities for you if you distribute copies of
the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or
for a fee, you must give the recipients all the rights that you have. You
must make sure that they, too, receive or can get the source code. And you
must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also, for
 each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software. If
the software is modified by someone else and passed on, we want its recipients
to know that what they have is not the original, so that any problems introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We
wish to avoid the danger that redistributors of a free program will individually
obtain patent licenses, in effect making the program proprietary. To prevent
this, we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
placed by the copyright holder saying it may be distributed under
 the terms
of this General Public License. The "Program", below, refers to any such program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
Program or a portion of it, either verbatim or with modifications and/or translated
into another language. (Hereinafter, translation is included without limitation
in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered
by this License; they are outside its scope. The act of running the Program
is not restricted, and the output from the Program is covered only if its
contents constitute a work based on the Program (independent of having been
made by running the Program). Whether that is true depends on what the Program
does.

1. You may copy and distribute verbatim copies of the Program's source code
as you receive it, in any medium, provided that you conspicuously
 and appropriately
publish on each copy an appropriate copyright notice and disclaimer of warranty;
keep intact all the notices that refer to this License and to the absence
of any warranty; and give any other recipients of the Program a copy of this
License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you
may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it,

thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge
 to all third parties under the terms of this
License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works.
 But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it
 with the complete corresponding machine-readable source code,
which must be distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give
any third party, for a charge no more than your cost of physically performing
source distribution, a complete machine-readable copy of the corresponding
source code, to be distributed under the terms of Sections 1 and 2 above on
a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute
corresponding source code. (This alternative is allowed only for noncommercial
distribution and only if you received the program in object code or executable
form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making
modifications to it. For an executable work, complete source code means
 all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and installation
of the executable. However, as a special exception, the source code distributed
need not include anything that is normally distributed (in either source or
binary form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component itself
accompanies the executable.

If distribution of executable or object code is made by offering access to
copy from a designated place, then offering equivalent access to copy the
source code from the same place counts as distribution of the source code,
even though third parties are not compelled to copy the source along with
the object code.

4. You may not copy, modify, sublicense, or distribute the Program except
as expressly provided under this License. Any attempt otherwise to copy, modify,
sublicense or distribute the Program
 is void, and will automatically terminate
your rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses terminated
so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed
it. However, nothing else grants you permission to modify or distribute the
Program or its derivative works. These actions are prohibited by law if you
do not accept this License. Therefore, by modifying or distributing the Program
(or any work based on the Program), you indicate your acceptance of this License
to do so, and all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program),
the recipient automatically receives a license from the original licensor
to copy, distribute or modify the Program subject to these terms and conditions.
You may
 not impose any further restrictions on the recipients' exercise of
the rights granted herein. You are not responsible for enforcing compliance
by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement
or for any other reason (not limited to patent issues), conditions are imposed
on you (whether by court order, agreement or otherwise) that contradict the
conditions of this License, they do not excuse you from the conditions of
this License. If you cannot distribute so as to satisfy simultaneously your
obligations under this License and any other pertinent obligations, then as
a consequence you may not distribute the Program at all. For example, if a
patent license would not permit royalty-free redistribution of the Program
by all those who receive copies directly or indirectly through you, then the
only way you could satisfy both it and this License would be to refrain entirely
from distribution of the Program.

If any portion of
 this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply and
the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents
or other property right claims or to contest validity of any such claims;
this section has the sole purpose of protecting the integrity of the free
software distribution system, which is implemented by public license practices.
Many people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose
that choice.

This section is intended to make thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted
 in certain
countries either by patents or by copyrighted interfaces, the original copyright
holder who places the Program under this License may add an explicit geographical
distribution limitation excluding those countries, so that distribution is
permitted only in or among countries not thus excluded. In such case, this
License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of

the General Public License from time to time. Such new versions will be similar
in spirit to the present version, but may differ in detail to address new
problems or concerns.

Each version is given a distinguishing version number. If the Program specifies
a version number of this License which applies to it and "any later version",
you have the option of following the terms and conditions either of that version
or of any later version published by the Free Software Foundation. If the
Program does not specify a version
 number of this License, you may choose
any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission. For software which is copyrighted by the Free Software Foundation,
write to the Free Software Foundation; we sometimes make exceptions for this.
Our decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing and reuse
of software generally.

  NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM
"AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR
 A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE
OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE
OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA
OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES
OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH
HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best

way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach
them to the start of each source file to most effectively convey the exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

<one line to give the program's name and an idea of what it does.>

Copyright (C)< yyyy> <name of author>

This program is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free Software
Foundation; either version 2 of the License, or (at your option) any later
version.

This program is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS
FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a
 copy of the GNU General Public License along with
this program; if not, write to the Free Software Foundation, Inc., 51 Franklin
Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when
it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software,
and you are welcome to redistribute it under certain conditions; type `show
c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be
called something other than `show w' and `show c'; they could even be mouse-clicks
or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school,
if any, to sign a "copyright
 disclaimer" for the program, if necessary. Here
is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision'
(which makes passes at compilers) written by James Hacker.

<signature of Ty Coon >, 1 April 1989 Ty Coon, President of Vice This General
Public License does not permit incorporating your program into proprietary
programs. If your program is a subroutine library, you may consider it more
useful to permit linking proprietary applications with the library. If this
is what you want to do, use the GNU Lesser General Public License instead
of this License.

1.264 skalibs 2.13.1.1-r1
1.264.1 Available under license :
Copyright (c) 2011-2023 Laurent Bercot <ska-skaware@skarnet.org>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.265 utmps 0.1.2.1-r1
1.265.1 Available under license :
Copyright (c) 2018-2023 Laurent Bercot <ska-skaware@skarnet.org>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.266 attr 2.5.1-r4

1.266.1 Available under license :

Copyright (c) 2013 Michael Dowling <mtdowling@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR
 IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
Copyright 2012-2020 Amazon.com, Inc. or its affiliates. All Rights Reserved.

Licensed under the Apache License, Version 2.0 (the "License"). You
may not use this file except in compliance with the License. A copy of
the License is located at

  http://aws.amazon.com/apache2.0/

or in the "license" file accompanying this file. This file is
distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF
ANY KIND, either express or implied. See the License for the specific
language governing permissions and limitations under the License.

1.267 acl 2.3.1-r3

1.267.1 Available under license :

AWS C Compression
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.
SPDX-License-Identifier: Apache-2.0.
                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

 2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

 3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

 (a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
AWS C Http
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.
SPDX-License-Identifier: Apache-2.0.
AWS Lib Crypto is a fork of BoringSSL, which is itself a fork of OpenSSL. New
files from AWS-LC are made available under the Apache-2.0 license OR the ISC
license. These licenses are reproduced at the bottom of this file.

BoringSSL licensing

BoringSSL is a fork of OpenSSL. As such, large parts of it fall under OpenSSL
licensing. Files that are completely new have a Google copyright and an ISC
license. This license is reproduced at the bottom of this file.

Files in third_party/ have their own licenses, as described therein. The MIT
license, for third_party/fiat, which, unlike other third_party directories, is
compiled into non-test libraries, is included below.

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the
OpenSSL License and the original SSLeay license apply to the toolkit. See below
for the actual license texts. Actually both licenses are BSD-style Open Source
licenses. In case of any license issues related to OpenSSL please
 contact
openssl-core@openssl.org.

The following are Google-internal bug numbers where explicit permission from
some authors is recorded for use of their work. (This is purely for our own
record keeping.)
 27287199
 27287880
 27287883
 263291445

OpenSSL License

/* ==
 * Copyright (c) 1998-2011 The OpenSSL Project. All rights reserved.

```
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning
 features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING,
 BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
```

* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/

Original SSLeay License

/* Copyright (C) 1995-1998
 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to. The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code. The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided
 with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
*   "This product includes cryptographic software written by
*   Eric Young (eay@cryptsoft.com)"
*   The word 'cryptographic' can be left out if the rouines from the library
*   being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*   the apps directory (application

code) you must include an acknowledgement:
*   "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code
 cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/

ISC license used for completely new code in BoringSSL:

/* Copyright (c) 2015, Google Inc.
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. */

The code in third_party/fiat
 carries the MIT license:

Copyright (c) 2015-2016 the fiat-crypto authors (see
https://github.com/mit-plv/fiat-crypto/blob/master/AUTHORS).

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES
 OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

The code in third_party/jitterentropy is distributed under the 3-Clause BSD
License. Amazon expressly elects to distribute the package under the 3-Clause
BSD License and NOT under GNU General Public License Version 2:

Copyright (C) 2017 - 2021, Stephan Mueller <smueller@chronox.de>

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name
 of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

The code in crypto/kyber/pqcrystals-kyber_kyber512_ref carries the
Public Domain license:

Public Domain (https://creativecommons.org/share-your-work/public-domain/cc0/)

For Keccak and AES we are using public-domain
code from sources and by authors listed in
comments on top of the respective files.

Licenses for support code

Parts of the TLS test suite are under the Go license. This code is not included
in BoringSSL (i.e. libcrypto and libssl) when compiled, however, so
distributing code linked against BoringSSL does not trigger this license:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice,
 this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY
 OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

BoringSSL uses the Chromium test infrastructure to run a continuous build,
trybots etc. The scripts which manage this, and the script for generating build
metadata, are under the Chromium license. Distributing code linked against
BoringSSL does not trigger this license.

Copyright 2015 The Chromium Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are

met:

   * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
   * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided
 with the
distribution.
   * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache 2.0 license for AWS-LC
 content

                    Apache License
              Version 2.0, January 2004
            http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common
    control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of
the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based
on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication
on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the

attribution notices contained

within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary
use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing,
shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

ISC license for AWS-LC content

Copyright Amazon.com, Inc. or its affiliates.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

 2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

 3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
      Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

==
S2N SUBCOMPONENTS:

The s2n Project contains subcomponents with seperate copyright notices
and license terms. Your use of the source code for these subcomponents is
subject to the terms and conditions of the following licenses.

==
Third party MIT licenses
==

The following components are provided under the MIT License. See project link for details.

SIKE
  -> s2n/pq-crypto/sike_r1/LICENSE.txt
AWS C Event Stream
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.
SPDX-License-Identifier: Apache-2.0.
The MIT License (MIT)

Copyright (c) 2015-2020 the fiat-crypto authors (see
https://github.com/mit-plv/fiat-crypto/blob/master/AUTHORS).

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
AWS C Mqtt
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.
SPDX-License-Identifier: Apache-2.0.
AWS C Common
Copyright 2018 Amazon.com, Inc. or its affiliates. All Rights Reserved.
s2n
Copyright 2014-2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
AWS C Auth
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.
SPDX-License-Identifier: Apache-2.0.
AWS Crt Python
Copyright 2018 Amazon.com, Inc. or its affiliates. All Rights Reserved.
SPDX-License-Identifier: Apache-2.0.

                        Apache License
                    Version 2.0, January 2004
                  http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common
    control with that entity. For the purposes of this definition,
    "control" means (i) the power, direct or indirect, to cause the
    direction or management of such entity, whether by contract or
    otherwise, or (ii) ownership of fifty percent (50%) or more of the
    outstanding shares, or (iii) beneficial ownership
  of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
** PKCS#11 Headers; version 2.40 -- http://docs.oasis-open.org/pkcs11/pkcs11-
base/v2.40/errata01/os/include/pkcs11-v2.40/

Copyright (c) OASIS Open 2016. All Rights Reserved.

All capitalized terms in the following text have the meanings assigned to them

in the OASIS Intellectual Property Rights Policy (the "OASIS IPR Policy"). The
full Policy may be found at the OASIS website:
[http://www.oasis-open.org/policies-guidelines/ipr]

This document and translations of it may be copied and furnished to others, and
derivative works that comment on or otherwise explain it or assist in its
implementation may be prepared, copied, published, and distributed, in whole or
in part, without restriction of any kind, provided that the above copyright
notice and this section are included on all such copies and derivative works.
However, this document itself may not be modified in any way, including by
removing the copyright notice or references to OASIS, except as needed for the
purpose of developing any
 document or deliverable produced by an OASIS
Technical Committee (in which case the rules applicable to copyrights, as set
forth in the OASIS IPR Policy, must be followed) or as required to translate it
into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by
OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS"
basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT
INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR
FITNESS FOR A PARTICULAR PURPOSE. OASIS AND ITS MEMBERS WILL NOT BE LIABLE FOR
ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE
OF THIS DOCUMENT OR ANY PART THEREOF.
AWS C Cal
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.
SPDX-License-Identifier: Apache-2.0.
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.
AWS-LC
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

 2. Grant of Copyright License. Subject to the terms and conditions of
    this License, each Contributor hereby grants to You a perpetual,
    worldwide, non-exclusive, no-charge, royalty-free, irrevocable
    copyright license to reproduce, prepare Derivative Works of,
    publicly display, publicly perform, sublicense, and distribute the
    Work and such Derivative Works in Source or Object form.

 3. Grant of Patent License. Subject to the terms and conditions of
    this
License, each Contributor hereby grants to You a perpetual,
    worldwide, non-exclusive, no-charge, royalty-free, irrevocable
    (except as stated in this section) patent license to make, have made,
    use, offer to sell, sell, import, and otherwise transfer the Work,
    where such license applies only to those patent claims licensable
    by such Contributor that are necessarily infringed by their
    Contribution(s) alone or by combination of their Contribution(s)
    with the Work to which such Contribution(s) was submitted. If You
    institute patent litigation against any entity (including a
    cross-claim or counterclaim in a lawsuit) alleging that the Work
    or a Contribution incorporated within the Work constitutes direct
    or contributory patent infringement, then any patent licenses
    granted to You under this License for that Work shall terminate
    as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
    Work or Derivative Works thereof in any medium, with or without
    modifications, and in Source or Object form, provided that You
    meet the following conditions:

    (a) You must give any other recipients of the Work or
        Derivative Works a copy of this License; and

    (b) You must cause any modified files to carry prominent notices
        stating that You changed the files; and

    (c) You must retain, in the Source form of any Derivative Works
        that You distribute, all copyright, patent, trademark, and
        attribution notices from the Source form of the Work,
        excluding those notices that do not pertain to any part of
        the Derivative Works; and

    (d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
 indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

AWS C Io

Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

SPDX-License-Identifier: Apache-2.0.

1.268 alpine-baselayout 3.4.3-r1

1.268.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Create mount directories in fstab
*
* Copyright(c) 2008 Natanael Copa <natanael.copa@gmail.com>
* May be distributed under the terms of GPL-2
*
* usage: mkmntdirs [fstab]
*
*/

Found in path(s):

* /opt/cola/permits/1675356458_1684887865.7744117/0/alpine-baselayout-master-zip/alpine-baselayout-master/src/mkmntdirs.c

1.269 free-type 2.13.0-r5

1.269.1 Available under license :

Files that don't get a copyright, or which are taken from elsewhere.
#
All lines in this file are patterns (relative to the top-level directory),
including the comment lines; this means that e.g. `FTL.TXT' matches all
files that have this string in the file name (including the path relative
to the current directory, always starting with `./').
#
Don't put empty lines into this file!
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#

src/gzip/adler32.c

src/gzip/ftzconf.c

src/gzip/infblock.c

src/gzip/infblock.h

src/gzip/infcodes.c

src/gzip/infcodes.h

src/gzip/inffixed.h

src/gzip/inflate.c

src/gzip/inftrees.c

src/gzip/inftrees.h

src/gzip/infutil.c

src/gzip/infutil.h

src/gzip/zconf.h

src/gzip/zlib.h

src/gzip/zutil.c

src/gzip/zutil.h

\#

src/tools/apinames.c

src/tools/ftrandom/ftrandom.c

\#

subprojects/dlg

\#

\#

 EOF

The FreeType Project LICENSE

2006-Jan-27

Copyright 1996-2002, 2006 by

David Turner, Robert Wilhelm, and Werner Lemberg

Introduction

============

The FreeType Project is distributed in several archive packages;
some of them may contain, in addition to the FreeType font engine,
various tools and contributions which rely on, or relate to, the
FreeType Project.

This license applies to all files found in such packages, and
which do not fall under their own explicit license. The license
affects thus the FreeType font engine, the test programs,
documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG

(Independent JPEG Group) licenses, which all encourage inclusion
and use of free software in commercial and freeware products
alike. As a consequence, its
main points are that:

  o We don't promise that this software works. However, we will be
    interested in any kind of bug reports. (`as is' distribution)

  o You can use this software for whatever you want, in parts or
    full form, without having to pay us. (`royalty-free' usage)

  o You may not pretend that you wrote this software. If you use
    it, or only parts of it, in a program, you must acknowledge
    somewhere in your documentation that you have used the
    FreeType code. (`credits')

We specifically permit and encourage the inclusion of this
software, with or without modifications, in commercial products.
We disclaim all warranties covering The FreeType Project and
assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a
credit/disclaimer to use in compliance with this license. We thus
encourage you to use the following text:

  """
    Portions
of this software are copyright <year> The FreeType
  Project (www.freetype.org). All rights reserved.
  """

Please replace <year> with the value from the FreeType version you
actually use.

Legal Terms
===========

0. Definitions

Throughout this license, the terms `package', `FreeType Project',
and `FreeType archive' refer to the set of files originally
distributed by the authors (David Turner, Robert Wilhelm, and
Werner Lemberg) as the `FreeType Project', be they named as alpha,
beta or final release.

`You' refers to the licensee, or person using the project, where
`using' is a generic term including compiling the project's source
code as well as linking it to form a `program' or `executable'.
This program is referred to as `a program using the FreeType
engine'.

This license applies to all files distributed in the original
FreeType Project, including all source code, binaries and
documentation,
 unless otherwise stated in the file in its
original, unmodified form as distributed in the original archive.
If you are unsure whether or not a particular file is covered by
this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner,
Robert Wilhelm, and Werner Lemberg. All rights reserved except as
specified below.

1. No Warranty

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO
USE, OF THE FREETYPE PROJECT.

2. Redistribution

This license grants a worldwide, royalty-free, perpetual and
irrevocable right and license to use, execute, perform, compile,
display,
 copy, create derivative works of, distribute and
sublicense the FreeType Project (in both source and object code
forms) and derivative works thereof for any purpose; and to
authorize others to exercise some or all of the rights granted
herein, subject to the following conditions:

  o Redistribution of source code must retain this license file
    (`FTL.TXT') unaltered; any additions, deletions or changes to
    the original files must be clearly indicated in accompanying
    documentation. The copyright notices of the unaltered,
    original files must be preserved in all copies of source
    files.

  o Redistribution in binary form must provide a disclaimer that

states that the software is based in part of the work of the
FreeType Team, in the distribution documentation. We also
encourage you to put an URL to the FreeType web page in your
documentation, though this isn't mandatory.

 These conditions apply to any software derived from or based on
the FreeType Project, not just the unmodified files.   If you use
our work, you must acknowledge us. However, no fee need be paid
to us.

3. Advertising

Neither the FreeType authors and contributors nor you shall use
the name of the other for commercial, advertising, or promotional
purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the
following phrases to refer to this software in your documentation
or advertising materials: `FreeType Project',  `FreeType Engine',
`FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to
accept it. However, as the FreeType Project is copyrighted
material, only this license, or another one contracted with the
authors, grants you the right to use, distribute, and modify it.
Therefore, by using,
 distributing, or modifying the FreeType
Project, you indicate that you understand and accept all the terms
of this license.

4. Contacts

There are two mailing lists related to FreeType:

 o freetype@nongnu.org

   Discusses general use and applications of FreeType, as well as
   future and wanted additions to the library and distribution.
   If you are looking for support, start in this list if you
   haven't found anything to help you in the documentation.

 o freetype-devel@nongnu.org

   Discusses bugs, as well as engine internals, design issues,
   specific licenses, porting, etc.

Our home page can be found at

https://www.freetype.org

--- end of FTL.TXT ---
FREETYPE LICENSES

The FreeType 2 font engine is copyrighted work and cannot be used
legally without a software license. In order to make this project
usable to a vast majority of developers, we distribute it under two
mutually exclusive open-source licenses.

This means that *you* must choose *one* of the two licenses described
below, then obey all its terms and conditions when using FreeType 2 in
any of your projects or products.

 - The FreeType License, found in the file `docs/FTL.TXT`, which is
   similar to the original BSD license *with* an advertising clause
   that forces you to explicitly cite the FreeType project in your
   product's documentation. All details are in the license file.
   This license is suited to products which don't use the GNU General
   Public License.

   Note that this license is compatible to the GNU General Public
   License version 3, but not version 2.

 - The GNU General Public License
   version 2, found in
   `docs/GPLv2.TXT` (any later version can be used also), for
   programs which already use the GPL. Note that the FTL is
   incompatible with GPLv2 due to its advertisement clause.

The contributed BDF and PCF drivers come with a license similar to
that of the X Window System. It is compatible to the above two
licenses (see files `src/bdf/README` and `src/pcf/README`). The same
holds for the source code files `src/base/fthash.c` and
`include/freetype/internal/fthash.h`; they were part of the BDF driver
in earlier FreeType versions.

The gzip module uses the zlib license (see `src/gzip/zlib.h`) which
too is compatible to the above two licenses.

The files `src/autofit/ft-hb.c` and `src/autofit/ft-hb.h` contain code
taken almost verbatim from the HarfBuzz file `hb-ft.cc`, which uses
the 'Old MIT' license, compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds)
is in the public domain.

--- end of LICENSE.TXT ---
    GNU GENERAL PUBLIC LICENSE
       Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

      Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed
 to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute

and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

   GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work
 which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute verbatim copies
 of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
    stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
    whole
 or in part contains or is derived from the Program or any
    part thereof, to be licensed as a whole at no charge to all third
    parties under the terms of this License.

  c) If the modified program normally reads commands interactively
    when run, you must cause it, when started running for such
    interactive use in the most ordinary way, to print or display an
    announcement including an appropriate copyright notice and a
    notice that there is no warranty (or else, saying that you provide
    a warranty) and that users may redistribute the program under
    these conditions, and telling the user how to view a copy of this
    License. (Exception: if the Program itself is interactive but
    does not normally print such an announcement, your work based on
    the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered
 independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based
on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable
   source code, which must be distributed under the terms of Sections
   1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three
   years, to give any third party, for a charge no more than your
   cost of physically performing source distribution, a complete
   machine-readable copy of the corresponding source code, to be
   distributed under the terms of Sections 1 and 2 above on a medium
   customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer
   to distribute corresponding source code. (This alternative is
   allowed only for noncommercial distribution and only if you
   received the program in object code or
executable form with such
   an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy
 the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such

parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

 6. Each
 time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free
 redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through

any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number
 of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

   NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
 EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN
 IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

  END OF TERMS AND CONDITIONS

  How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 2 of the License,
 or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program; if not, write to the Free Software
  Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it

under certain conditions; type `show c' for details.

The hypothetical commands `show w'

 and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may

be called something other than `show w' and `show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the program, if

necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program

 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989

 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the

library. If this is what you want to do, use the GNU Library General

Public License instead of this License.

1.270 libncursesw 6.4_p20230506-r0

1.270.1 Available under license :

Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Copyright: 2017-2022,2023 Thomas E. Dickey
Copyright: 1998-2016,2017 Free Software Foundation, Inc.
License: X11

Files: aclocal.m4 package
Copyright: 2003-2020,2023 by Thomas E. Dickey
License: X11

 Permission is hereby granted, free of charge, to any person obtaining a

 copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
 in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization.

Files: install-sh
Copyright: 1994 X Consortium
License: X11

  Permission is hereby granted, free of charge, to any person obtaining
 a copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
  sell copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

 Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-

tium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in '/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8
Copyright 2018-2022,2023 Thomas E. Dickey
Copyright 1998-2017,2018 Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER
 IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization.

-- vile:txtmode fc=72
-- $Id: COPYING,v 1.12 2023/01/07 17:55:53 tom Exp $
Upstream source https://invisible-island.net/ncurses/Ada95.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Copyright: 2017-2022,2023 by Thomas E. Dickey
Copyright: 1998-2016,2017 Free Software Foundation, Inc.
License: X11

Files: aclocal.m4 package
Copyright: 2010-2020,2021 by Thomas E. Dickey
License: X11

  Permission is hereby granted, free of charge, to any person obtaining a
  copy of this software and associated documentation files (the
  "Software"), to deal in the Software without restriction, including
  without limitation the rights to use, copy, modify, merge, publish,
  distribute, distribute with modifications, sublicense, and/or sell
  copies of the Software, and to permit persons to whom the Software is
  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included

  in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
  OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
  IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
  DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
  OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
  THE USE OR OTHER DEALINGS IN THE SOFTWARE.

  Except as contained in this notice, the name(s) of the above copyright
  holders shall not be used in advertising or otherwise to promote the
  sale, use or other dealings in this Software without prior written
  authorization.

Files: install-sh
Copyright: 1994 X Consortium
License: X11

  Permission is hereby granted, free of charge, to any person obtaining a
 copy
  of this software and associated documentation files (the "Software"), to
  deal in the Software without restriction, including without limitation the
  rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
  sell copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except
as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
tium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in '/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Copyright: 2017-2022,2023 by Thomas E. Dickey
Copyright: 1998-2016,2017 Free Software Foundation, Inc.
License: X11

Files: aclocal.m4 package
Copyright: 1996-2022,2023 by Thomas E. Dickey
License: X11

Files: doc/html/NCURSES-Programming-HOWTO.html

Copyright: 2001 by Pradeep Padala

License: X11

  Permission is hereby granted, free of charge, to any person obtaining a

  copy of this software and associated documentation files (the

  "Software"), to deal in the Software without restriction, including

  without limitation the rights to use, copy, modify, merge, publish,

  distribute, distribute with modifications, sublicense, and/or sell

  copies of the Software, and to permit persons to whom the Software

is

  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included

  in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS

  OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

  MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

  IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,

  DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR

  OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR

  THE USE OR OTHER DEALINGS IN THE SOFTWARE.

  Except as contained in this notice, the name(s) of the above copyright

  holders shall not be used in advertising or otherwise to promote the

  sale, use or other dealings in this Software without prior written

  authorization.

Files:
 install-sh
Copyright: 1994 X Consortium
License: X11

  Permission is hereby granted, free of charge, to any person obtaining a copy

  of this software and associated documentation files (the "Software"), to

  deal in the Software without restriction, including without limitation the

  rights to use, copy, modify, merge, publish, distribute, sublicense, and/or

  sell copies of the Software, and to permit persons to whom the Software is

  furnished to do so, subject to the following conditions:

  The above copyright notice and this permission notice shall be included in

  all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

  IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

  X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN

AN ACTION OF
 CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
 TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

 Except as contained in this notice, the name of the X Consortium shall not
 be used in advertising or otherwise to promote the sale, use or other deal-
 ings in this Software without prior written authorization from the X Consor-
 tium.

 Files: progs/tset.c ncurses/tinfo/read_termcap.c
 Copyright: 1980,1991,1992,1993 The Regents of the University of California.
 License: BSD

 Redistribution and use in source and binary forms, with or without
 modification, are permitted provided that the following conditions
 are met:
 1. Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.
 2. Redistributions in binary form must reproduce the above copyright
    notice, this list
 of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.
 3. Neither the name of the University nor the names of its contributors
    may be used to endorse or promote products derived from this software
    without specific prior written permission.

 THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 ARISING IN ANY WAY
 OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 SUCH DAMAGE.

 -- vile: txtmode file-encoding=utf-8

1.271 lcms 2.15-r2

1.271.1 Available under license :

Little CMS

Copyright (c) 1998-2020 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject
to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF
 OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

THIS LICENSE APPLIES ONLY TO iccjpeg.c file

In plain English:

1. We don't promise that this software works. (But if you find any bugs,
   please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a
   program, you must acknowledge somewhere in your documentation that
   you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose. This software is provided "AS IS", and you,
its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this
software (or portions thereof) for any purpose, without fee, subject to these
conditions:

(1)
 If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived from
it. This software may
 be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage the use of this software as the basis of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
    "The Graphics Interchange Format(c) is the Copyright property of
  CompuServe Incorporated. GIF(sm) is a Service Mark property of
  CompuServe Incorporated."
                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the

public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is
 not conveying.

 An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

 1. Source Code.

 The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

 A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for

the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered
 by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid

circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
 4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years
and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and
  only if you received the object code with such an offer, in accord
  with subsection 6b.

  d) Convey the object code by offering access from a designated
  place (gratis or for a charge), and offer equivalent access to the
  Corresponding Source in
the same way through the same place at no
   further charge. You need not require recipients to copy the

Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply

if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty or
limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal

Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or
requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your

license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

  A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

  A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

  Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

  In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

  If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent

license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to
 do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.272 tzdata 2023c-r1

1.272.1 Available under license :

No license file was found, but licenses were detected in source scan.

/* ripped from uclibc
*
* Copyright (C) 2010 Denys Vlasenko <vda.linux@googlemail.com>
* Copyright (C) 2011 Natanael Copa <ncopa@alpinelinux.org>
*
* GNU Library General Public License (LGPL) version 2 or later.
*
*/

Found in path(s):

* /opt/cola/permits/1678090724_1684323555.0076678/0/posixtz-0-5-tar-xz/posixtz-0.5/posixtz.c

1.273 libxdmcp 1.1.4-r2

1.273.1 Available under license :

Copyright 1989, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used in advertising
 or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.

Author: Keith Packard, MIT X Consortium

1.274 giflib 5.2.1-r4

1.274.1 Available under license :

The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
 OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.275 libxcb 1.15-r1

1.275.1 Available under license :

Copyright (C) 2001-2006 Bart Massey, Jamey Sharp, and Josh Triplett.
All Rights Reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall
be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT
 OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the names of the authors
or their institutions shall not be used in advertising or
otherwise to promote the sale, use or other dealings in this
Software without prior written authorization from the
authors.

1.276 libxrender 0.9.11-r3

1.276.1 Available under license :

Copyright 2001,2003 Keith Packard

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of Keith Packard not be used in
advertising or publicity pertaining to distribution of the software without
specific, written prior permission. Keith Packard makes no
representations about the suitability of this software for any purpose. It
is provided "as is" without express or implied warranty.

KEITH PACKARD DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL KEITH PACKARD BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
 OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 2000 SuSE, Inc.

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of SuSE not be used in advertising or
publicity pertaining to distribution of the software without specific,
written prior permission. SuSE makes no representations about the
suitability of this software for any purpose. It is provided "as is"
without express or implied warranty.

SuSE DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL SuSE
BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
 PROFITS, WHETHER IN AN ACTION
OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.277 libxext 1.3.5-r2

1.277.1 Available under license :

Copyright 1986, 1987, 1988, 1989, 1994, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
 not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.

Copyright (c) 1996 Digital Equipment Corporation, Maynard, Massachusetts.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY CLAIM, DAMAGES, INCLUDING,
BUT NOT LIMITED
 TO CONSEQUENTIAL OR INCIDENTAL DAMAGES, OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Digital Equipment Corporation

shall not be used in advertising or otherwise to promote the sale, use or other
dealings in this Software without prior written authorization from Digital
Equipment Corporation.

Copyright (c) 1997 by Silicon Graphics Computer Systems, Inc.
Permission to use, copy, modify, and distribute this
software and its documentation for any purpose and without
fee is hereby granted, provided that the above copyright
notice appear in all copies and that both that copyright
notice and this permission notice appear in supporting
documentation, and that the name of Silicon Graphics not be
used in advertising or publicity pertaining to distribution
of the software without specific prior written permission.
Silicon
 Graphics makes no representation about the suitability
of this software for any purpose. It is provided "as is"
without any express or implied warranty.
SILICON GRAPHICS DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SILICON
GRAPHICS BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH
THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1992 Network Computing Devices

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name
 of NCD. not be used in advertising or
publicity pertaining to distribution of the software without specific,
written prior permission. NCD. makes no representations about the
suitability of this software for any purpose. It is provided "as is"
without express or implied warranty.

NCD. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL NCD.
BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1991,1993 by Digital Equipment Corporation, Maynard, Massachusetts,
and Olivetti Research Limited, Cambridge, England.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without
 fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the names of Digital or Olivetti
not be used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

DIGITAL AND OLIVETTI DISCLAIM ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL THEY BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 1986, 1987, 1988 by Hewlett-Packard Corporation

Permission to use, copy, modify, and distribute this
software and its documentation for any purpose and without
fee is hereby granted, provided
 that the above copyright
notice appear in all copies and that both that copyright
notice and this permission notice appear in supporting
documentation, and that the name of Hewlett-Packard not be used in
advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

Hewlett-Packard makes no representations about the
suitability of this software for any purpose. It is provided
"as is" without express or implied warranty.

This software is not subject to any license of the American
Telephone and Telegraph Company or of the Regents of the
University of California.

Copyright (c) 1994, 1995 Hewlett-Packard Company

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software,

and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL HEWLETT-PACKARD COMPANY BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the Hewlett-Packard
Company shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization from the Hewlett-Packard Company.

Copyright Digital Equipment Corporation, 1996

Permission
 to use, copy, modify, distribute, and sell this
documentation for any purpose is hereby granted without fee,
provided that the above copyright notice and this permission
notice appear in all copies. Digital Equipment Corporation
makes no representations about the suitability for any purpose
of the information in this document. This documentation is
provided ``as is'' without express or implied warranty.

Copyright (c) 1999, 2005, 2006, 2013, 2015, Oracle and/or its affiliates.
Copyright 2007-2008 Peter Hutterer

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission
 notice (including the next
paragraph) shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Copyright (c) 1989 X Consortium, Inc. and Digital Equipment Corporation.
Copyright (c) 1992 X Consortium, Inc. and Intergraph Corporation.
Copyright (c) 1993 X Consortium, Inc. and Silicon Graphics, Inc.
Copyright (c) 1994, 1995 X Consortium, Inc. and Hewlett-Packard Company.

Permission to use, copy, modify, and distribute this documentation for
any purpose and without fee is hereby granted, provided that the above
copyright
 notice and this permission notice appear in all copies.
Digital Equipment Corporation, Intergraph Corporation, Silicon
Graphics, Hewlett-Packard, and the X Consortium make no
representations about the suitability for any purpose of the
information in this document. This documentation is provided ``as is''
without express or implied warranty.

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER
 TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.278 libxau 1.0.11-r2

1.278.1 Available under license :

Copyright 1988, 1993, 1994, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used
 in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.

1.279 ca-certificates-bundle 20230506-r0
1.279.1 Available under license :
No license file was found, but licenses were detected in source scan.

* You may opt to use, copy, modify, merge, publish, distribute and/or sell
* furnished to do so, under the terms of the COPYING file.

Found in path(s):
* /opt/cola/permits/1679450782_1685340861.071418/0/ca-certificates-20230506-tar-bz2/ca-certificates-
20230506/mk-ca-bundle.pl
No license file was found, but licenses were detected in source scan.

/* c_rehash.c - Create hash symlinks for certificates
* C implementation based on the original Perl and shell versions
*
* Copyright (c) 2013-2014 Timo Teräs <timo.teras@iki.fi>
* All rights reserved.
*
* This software is licensed under the MIT License.
* Full license available at: http://opensource.org/licenses/MIT
*/

Found in path(s):
* /opt/cola/permits/1679450782_1685340861.071418/0/ca-certificates-20230506-tar-bz2/ca-certificates-
20230506/c_rehash.c

1.280 servlet-api 4.0.0

1.280.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--
 Copyright (c) 2013 - 2018 Lijun Liao

 Licensed under the Apache License, Version 2.0 (the "License");
 you may not use this file except in compliance with the License.
 You may obtain a copy of the License at

 http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
-->

Found in path(s):
* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/META-INF/maven/org.xipki/servlet-api/pom.xml
No license file was found, but licenses were detected in source scan.

/*
*
* Copyright (c) 2013 - 2018 Lijun Liao
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/SslReverseProxyMode.java
* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/ServletURI.java
* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/ServletURIPool.java

*

 /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/HttpServlet.java

* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/AbstractHttpServlet,java

* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/TlsHelper.java

* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/SimpleLruCache.java

* /opt/cola/permits/1681297276_1684484022.2676213/0/servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/package-info.java

1.281 mkfontscale 1.2.2-r3

1.281.1 Available under license :

Copyright (c) 2002-2008 by Juliusz Chroboczek

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Copyright (c) 2008, Oracle and/or its affiliates. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next
paragraph) shall be included in all copies or substantial portions of the

Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE
 FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 1993, 1994, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY
 CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

Copyright 2005 Red Hat, Inc.

Permission to use, copy, modify, distribute, and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Red Hat not be used in
advertising or publicity pertaining to distribution of the software

without specific, written prior permission. Red Hat makes no
representations
 about the suitability of this software for any
purpose. It is provided "as is" without express or implied warranty.

RED HAT DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN
NO EVENT SHALL RED HAT BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE
USE OR PERFORMANCE OF THIS SOFTWARE.

1.282 encodings 1.0.7-r1
1.282.1 Available under license :
The XFree86/Xorg encoding files are in the public domain.

Most of these encoding files were generated by me in the winter of 1998/1998
from publicly available sources (notably from data files provided by the
Unicode Consortium) using a throw-away program written in Common Lisp. Over
the years, a number of people have kindly added new encoding files to the
collection.

If you want to add a copyright statement to an encoding file, you need
your brain examined.

                    Juliusz Chroboczek

1.283 libfontenc 1.1.7-r2
1.283.1 Available under license :
Copyright (c) 1998-2001 by Juliusz Chroboczek

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.284 font-dejavu 2.37-r5

1.284.1 Available under license :

Fonts are (c) Bitstream (see below). DejaVu changes are in public domain.
Glyphs imported from Arev fonts are (c) Tavmjong Bah (see below)

Bitstream Vera Fonts Copyright

Copyright (c) 2003 by Bitstream, Inc. All Rights Reserved. Bitstream Vera is
a trademark of Bitstream, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of the fonts accompanying this license ("Fonts") and associated
documentation files (the "Font Software"), to reproduce and distribute the
Font Software, including without limitation the rights to use, copy, merge,
publish, distribute, and/or sell copies of the Font Software, and to permit
persons to whom the Font Software is furnished to do so, subject to the
following conditions:

The above copyright and trademark notices and this permission notice shall
be included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or added to, and in particular
the
 designs of glyphs or characters in the Fonts may be modified and
additional glyphs or characters may be added to the Fonts, only if the fonts
are renamed to names not containing either the words "Bitstream" or the word
"Vera".

This License becomes null and void to the extent applicable to Fonts or Font
Software that has been modified and is distributed under the "Bitstream
Vera" names.

The Font Software may be sold as part of a larger software package but no
copy of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL BITSTREAM OR THE GNOME FOUNDATION BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION
 OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF
THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Except as contained in this notice, the names of Gnome, the Gnome Foundation, and Bitstream Inc., shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Font Software without prior written authorization from the Gnome Foundation or Bitstream Inc., respectively. For further information, contact: fonts at gnome dot org.

Arev Fonts Copyright

Copyright (c) 2006 by Tavmjong Bah. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of the fonts accompanying this license ("Fonts") and associated documentation files (the "Font Software"), to reproduce and distribute the modifications to the Bitstream Vera Font Software, including without limitation the rights to use, copy, merge, publish, distribute, and/or sell copies of the Font
 Software, and to permit
persons to whom the Font Software is furnished to do so, subject to the following conditions:

The above copyright and trademark notices and this permission notice shall be included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or added to, and in particular the designs of glyphs or characters in the Fonts may be modified and additional glyphs or characters may be added to the Fonts, only if the fonts are renamed to names not containing either the words "Tavmjong Bah" or the word "Arev".

This License becomes null and void to the extent applicable to Fonts or Font Software that has been modified and is distributed under the "Tavmjong Bah Arev" names.

The Font Software may be sold as part of a larger software package but no copy of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT
 NOT LIMITED TO ANY WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL TAVMJONG BAH BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Except as contained in this notice, the name of Tavmjong Bah shall not
be used in advertising or otherwise to promote the sale, use or other
dealings in this Font Software without prior written authorization
from Tavmjong Bah. For further information, contact: tavmjong @ free
. fr.

TeX Gyre DJV Math

Fonts are (c) Bitstream (see below). DejaVu changes are in public domain.

Math extensions done by B. Jackowski, P. Strzelczyk and P. Pianowski
(on behalf of TeX users groups) are in public domain.

Letters
 imported from Euler Fraktur from AMSfonts are (c) American
Mathematical Society (see below).
Bitstream Vera Fonts Copyright
Copyright (c) 2003 by Bitstream, Inc. All Rights Reserved. Bitstream Vera
is a trademark of Bitstream, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of the fonts accompanying this license (Fonts) and associated
documentation
files (the Font Software), to reproduce and distribute the Font Software,
including without limitation the rights to use, copy, merge, publish,
distribute,
and/or sell copies of the Font Software, and to permit persons to whom
the Font Software is furnished to do so, subject to the following
conditions:

The above copyright and trademark notices and this permission notice
shall be
included in all copies of one or more of the Font Software typefaces.

The Font Software may be modified, altered, or added to, and in particular
the designs of glyphs or characters in the Fonts may be modified and

additional
glyphs
 or characters may be added to the Fonts, only if the fonts are
renamed
to names not containing either the words Bitstream or the word Vera.

This License becomes null and void to the extent applicable to Fonts or
Font Software
that has been modified and is distributed under the Bitstream Vera
names.

The Font Software may be sold as part of a larger software package but
no copy
of one or more of the Font Software typefaces may be sold by itself.

THE FONT SOFTWARE IS PROVIDED AS IS, WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT,
TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL BITSTREAM OR THE GNOME
FOUNDATION
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL,
SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN
ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR
INABILITY TO
 USE
THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.
Except as contained in this notice, the names of GNOME, the GNOME
Foundation,
and Bitstream Inc., shall not be used in advertising or otherwise to promote
the sale, use or other dealings in this Font Software without prior written
authorization from the GNOME Foundation or Bitstream Inc., respectively.
For further information, contact: fonts at gnome dot org.

AMSFonts (v. 2.2) copyright

The PostScript Type 1 implementation of the AMSFonts produced by and
previously distributed by Blue Sky Research and Y&Y, Inc. are now freely
available for general use. This has been accomplished through the
cooperation
of a consortium of scientific publishers with Blue Sky Research and Y&Y.
Members of this consortium include:

Elsevier Science IBM Corporation Society for Industrial and Applied
Mathematics (SIAM) Springer-Verlag American Mathematical Society (AMS)

In order to assure the authenticity of these fonts, copyright will be
held

by

the American Mathematical Society. This is not meant to restrict in any way

the legitimate use of the fonts, such as (but not limited to) electronic

distribution of documents containing these fonts, inclusion of these fonts

into other public domain or commercial font collections or computer

applications, use of the outline data to create derivative fonts and/or

faces, etc. However, the AMS does require that the AMS copyright notice be

removed from any derivative versions of the fonts which have been altered in

any way. In addition, to ensure the fidelity of TeX documents using Computer

Modern fonts, Professor Donald Knuth, creator of the Computer Modern faces,

has requested that any alterations which yield different font metrics be

given a different name.

Id

1.285 libc-utils 0.7.2-r5

1.285.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 1991, 1993

* The Regents of the University of California. All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.

* 3. Neither the name of the University nor the names of its contributors

*   may be used to endorse or promote products derived from this software

*   without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

* ANY EXPRESS OR IMPLIED WARRANTIES,

 INCLUDING, BUT NOT LIMITED TO, THE

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

*

* @(#)queue.h 8.5 (Berkeley) 8/20/94

*/

Found in path(s):

* /opt/cola/permits/1686513755_1685082238.691036/0/aports-master-main-libc-dev-zip/aports-master-main-libc-dev/main/libc-dev/sys-queue.h

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2002 Niels Provos <provos@citi.umich.edu>

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.

*

* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR

* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,

* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

 DAMAGES (INCLUDING, BUT

* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF

* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*/

Found in path(s):

* /opt/cola/permits/1686513755_1685082238.691036/0/aports-master-main-libc-dev-zip/aports-master-main-libc-dev/main/libc-dev/sys-tree.h

1.286 alpine-baselayout-data 3.4.3-r1

1.286.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Create mount directories in fstab

```
*
* Copyright(c) 2008 Natanael Copa <natanael.copa@gmail.com>
* May be distributed under the terms of GPL-2
*
* usage: mkmntdirs [fstab]
*
*/
```

Found in path(s):

* /opt/cola/permits/1690300026_1684996389.3603017/0/alpine-baselayout-master-zip/alpine-baselayout-master/src/mkmntdirs.c

1.287 su-exec 0.2-r3

1.287.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 ncopa

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION
 WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.288 bash 5.2.15-r5

1.288.1 Available under license :

Shellfloat is copyright (c) 2020 by Michael Wood.
===

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work
 released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code.
 And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed
 this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees" and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,

distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables
other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces
 specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts
 to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source

includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.
This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with
you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed; section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

You may
convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it
is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section 4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your

work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions
 of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in,
 a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and
  only if you received the object code with such an offer, in accord
  with subsection 6b.

  d) Convey the object code by
 offering access from a designated
   place (gratis or for a charge), and offer equivalent access to the
   Corresponding Source in the same way through the same place at no

further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the
only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied

by the Installation Information. But this requirement does not apply
if neither you nor
 any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement
 the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if
 authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or

author attributions in that material or in the Appropriate Legal
Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or
requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual
assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on
those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional
terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation
by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept
this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if

the predecessor
 has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling
 its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent
 license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner

consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license
 to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b)
 primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both
 those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number.
 If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED
 BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM

IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM
 TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17. Interpretation of Sections 15 and 16.

  If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file
 to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper
mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine
library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
            GNU GENERAL PUBLIC LICENSE
               Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

    Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This

General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed
 to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute
 and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

    GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which
contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies
of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole
or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an

announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered
 independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based
 on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution and only if you

received the program in object code or
executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the
source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each
time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution
 of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through
 any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program

specifies a version number
 of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

    NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
 EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN
 IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

    END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License,
or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w'
 and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU Free Documentation License
Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
   <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document "free" in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of "copyleft", which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We
 have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The "Document", below,

refs to any such manual or work. Any member of the public is a
licensee, and is addressed as "you". You accept the license if you
copy,
 modify or distribute the work in a way requiring permission
under copyright law.

A "Modified Version" of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of
the Document that deals exclusively with the relationship of the
publishers or authors of the Document to the Document's overall
subject (or to related matters) and contains nothing that could fall
directly within that overall subject. (Thus, if the Document is in
part a textbook of mathematics, a Secondary Section may not explain
any mathematics.) The relationship could be a matter of historical
connection with the subject or with related matters, or of legal,
commercial, philosophical, ethical or political position regarding
them.

The "Invariant Sections" are certain Secondary Sections whose titles
are designated, as being those of Invariant Sections,
 in the notice
that says that the Document is released under this License. If a
section does not fit the above definition of Secondary then it is not
allowed to be designated as Invariant. The Document may contain zero
Invariant Sections. If the Document does not identify any Invariant
Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed,
as Front-Cover Texts or Back-Cover Texts, in the notice that says that
the Document is released under this License. A Front-Cover Text may
be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy,
represented in a format whose specification is available to the
general public, that is suitable for revising the document
straightforwardly with generic text editors or (for images composed of
pixels) generic paint programs or (for drawings) some widely available
drawing editor, and that is suitable for input to text formatters
 or
for automatic translation to a variety of formats suitable for input
to text formatters. A copy made in an otherwise Transparent file
format whose markup, or absence of markup, has been arranged to thwart
or discourage subsequent modification by readers is not Transparent.
An image format is not Transparent if used for any substantial amount
of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain
ASCII without markup, Texinfo input format, LaTeX input format, SGML
or XML using a publicly available DTD, and standard-conforming simple
HTML, PostScript or PDF designed for human modification. Examples of
transparent image formats include PNG, XCF and JPG. Opaque formats
include proprietary formats that can be read and edited only by
proprietary word processors, SGML or XML for which the DTD and/or
processing tools are not generally available, and the
machine-generated HTML, PostScript or PDF produced by some
 word
processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, "Title Page" means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of
the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as "Acknowledgements",
"Dedications", "Endorsements", or "History".) To "Preserve the Title"
of such a section when you modify the Document means that it remains a
section "Entitled XYZ" according to this definition.

The
 Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no
other conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept

compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section
 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have
printed covers) of the Document, numbering more than 100, and the
Document's license notice requires Cover Texts, you must enclose the
copies in covers that carry, clearly and legibly, all these Cover
Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on
the back cover. Both covers must also clearly and legibly identify
you as the publisher of these copies. The front cover must present
the full title with all words of the title equally prominent and
visible. You may add other material on the covers in addition.
Copying with changes limited to the covers, as long as they preserve
the title of the Document and satisfy these conditions, can be treated
as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit
legibly, you should
 put the first ones listed (as many as fit
reasonably) on the actual cover, and continue the rest onto adjacent
pages.

If you publish or distribute Opaque copies of the Document numbering
more than 100, you must either include a machine-readable Transparent
copy along with each Opaque copy, or state in or with each Opaque copy
a computer-network location from which the general network-using
public has access to download using public-standard network protocols
a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before
 redistributing any large number of copies, to
give them a chance to provide you with an updated version of the
Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct
   from that of the Document, and from those of previous versions
   (which should, if there were any, be listed in the History section
   of the Document). You may use the same title as a previous version
   if the original publisher of that version gives permission.
B. List on the Title Page, as authors, one or more persons or entities
   responsible for authorship of
 the modifications in the Modified
   Version, together with at least five of the principal authors of the
   Document (all of its principal authors, if it has fewer than five),
   unless they release you from this requirement.
C. State on the Title page the name of the publisher of the
   Modified Version, as the publisher.
D. Preserve all the copyright notices of the Document.
E. Add an appropriate copyright notice for your modifications
   adjacent to the other copyright notices.
F. Include, immediately after the copyright notices, a license notice
   giving the public permission to use the Modified Version under the
   terms of this License, in the form shown in the Addendum below.
G. Preserve in that license notice the full lists of Invariant Sections
   and required Cover Texts given in the Document's license notice.
H. Include an unaltered copy of this License.
I. Preserve the section Entitled "History", Preserve its Title, and add
   to it an item stating at least the title, year,
 new authors, and
   publisher of the Modified Version as given on the Title Page. If
   there is no section Entitled "History" in the Document, create one
   stating the title, year, authors, and publisher of the Document as
   given on its Title Page, then add an item describing the Modified
   Version as stated in the previous sentence.
J. Preserve the network location, if any, given in the Document for
   public access to a Transparent copy of the Document, and likewise
   the network locations given in the Document for previous versions
   it was based on. These may be placed in the "History" section.
   You may omit a network location for a work that was published at
   least four years before the Document itself, or if the original
   publisher of the version it refers to gives permission.
K. For any section Entitled "Acknowledgements" or "Dedications",

Preserve the Title of the section, and preserve in the section all
the substance and tone of each of the contributor
acknowledgements
and/or dedications given therein.
L. Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.
M. Delete any section Entitled "Endorsements". Such a section
may not be included in the Modified Version.
N. Do not retitle any existing section to be Entitled "Endorsements"
or to conflict in title with any Invariant Section.
O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains
nothing but
 endorsements of your Modified Version by various
parties--for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

5. COMBINING
 DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the

Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections
 Entitled "History"
in the various original documents, forming one section Entitled
"History"; likewise combine any sections Entitled "Acknowledgements",
and any sections Entitled "Dedications". You must delete all sections
Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other
documents released under this License, and replace the individual
copies of this License in the various documents with a single copy
that is included in the collection, provided that you follow the rules
of this License for verbatim copying of each of the documents in all
other respects.

You may extract a single document from such a collection, and
distribute it individually under this License, provided you insert a
copy of this License into the extracted document, and follow this
License in all other respects regarding verbatim copying of that
document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives
 with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an "aggregate" if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under
 the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements",
"Dedications", or "History", the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this
 License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies
 or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the
GNU Free Documentation License from time to time. Such new versions
will be similar in spirit to the present version, but may differ in
detail to address new problems or concerns. See
http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License "or any later version" applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version
 ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a
version permanently authorizes you to choose that version for the
Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any
World Wide Web server that publishes copyrightable works and also
provides prominent facilities for anybody to edit those works. A
public wiki that anybody can edit is an example of such a server. A
"Massive Multiauthor Collaboration" (or "MMC") contained in the site
means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0
license published by Creative Commons Corporation, a not-for-profit
corporation with a principal place of business in San Francisco,

California, as well as future copyleft versions of that license
published by
 that same organization.

"Incorporate" means to publish or republish a Document, in whole or in
part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this
License, and if all works that were first published under this License
somewhere other than this MMC, and subsequently incorporated in whole or
in part into the MMC, (1) had no cover texts or invariant sections, and
(2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

  Copyright (c) YEAR YOUR NAME.
  Permission is granted to copy, distribute and/or modify this document
   under the terms of the GNU Free Documentation License, Version 1.3
  or any later version published by the Free Software Foundation;
  with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts.
  A copy of the license is included in the section entitled "GNU
  Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the "with...Texts." line with this:

  with the Invariant Sections being LIST THEIR TITLES, with the
  Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document
 must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers

to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section
of the Document that deals exclusively with the relationship of the
publishers or authors of the Document to the Document's overall
subject (or to related matters) and contains nothing that could fall
directly within that overall subject. (Thus, if the Document is in
part a textbook of mathematics, a Secondary Section may not explain
any mathematics.) The relationship could be a matter of historical
connection with the subject or with related matters, or of legal,
commercial, philosophical, ethical or political
 position regarding
them.

The ``Invariant Sections'' are certain Secondary Sections whose titles
are designated, as being those of Invariant Sections, in the notice
that says that the Document is released under this License. If a
section does not fit the above definition of Secondary then it is not
allowed to be designated as Invariant. The Document may contain zero
Invariant Sections. If the Document does not identify any Invariant
Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed,
as Front-Cover Texts or Back-Cover Texts, in the notice that says that
the Document is released under this License. A Front-Cover Text may
be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy,
represented in a format whose specification is available to the
general public, that is suitable for revising the document
straightforwardly with generic text editors or (for
 images composed of
pixels) generic paint programs or (for drawings) some widely available
drawing editor, and that is suitable for input to text formatters or
for automatic translation to a variety of formats suitable for input
to text formatters. A copy made in an otherwise Transparent file
format whose markup, or absence of markup, has been arranged to thwart
or discourage subsequent modification by readers is not Transparent.
An image format is not Transparent if used for any substantial amount
of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain
@sc{ascii} without markup, Texinfo input format, La@TeX{} input
format, @acronym{SGML} or @acronym{XML} using a publicly available
@acronym{DTD}, and standard-conforming simple @acronym{HTML},
PostScript or @acronym{PDF} designed for human modification. Examples
of transparent image formats include @acronym{PNG}, @acronym{XCF} and
@acronym{JPG}. Opaque formats
 include proprietary formats that can be
read and edited only by proprietary word processors, @acronym{SGML} or
@acronym{XML} for which the @acronym{DTD} and/or processing tools are
not generally available, and the machine-generated @acronym{HTML},
PostScript or @acronym{PDF} produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in
 another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.)  To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever

to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have
printed covers) of the Document, numbering more than 100, and the
Document's license notice requires Cover Texts, you must enclose the
copies in covers that carry, clearly and legibly, all these Cover
Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on
the back cover. Both covers must also clearly and legibly identify
you as the publisher of these copies. The front cover must present
the full title with all words of the title equally prominent and
visible.
  You may add other material on the covers in addition.
Copying with changes limited to the covers, as long as they preserve
the title of the Document and satisfy these conditions, can be treated
as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit
legibly, you should put the first ones listed (as many as fit
reasonably) on the actual cover, and continue the rest onto adjacent
pages.

If you publish or distribute Opaque copies of the Document numbering
more than 100, you must either include a machine-readable Transparent
copy along with each Opaque copy, or state in or with each Opaque copy
a computer-network location from which the general network-using
public has access to download using public-standard network protocols
a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that
 this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from
 those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in
 the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least
 four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document,

you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf
 of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of
 each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History''
in the various original documents, forming one section Entitled

``History''; likewise combine any sections Entitled ``Acknowledgements'',
and any sections Entitled ``Dedications''. You must delete all
sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract
 a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an ``aggregate'' if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may
 be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the

original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include
the original English version of this License and the original versions
of those notices and disclaimers. In case of a disagreement between
the translation and the original version of this License or a notice
or disclaimer, the original
 version will prevail.

If a section in the Document is Entitled ``Acknowledgements'',
``Dedications'', or ``History'', the requirement (section 4) to Preserve
its Title (section 1) will typically require changing the actual
title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies
 you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new

versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that
 a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a
version permanently authorizes you to choose that version for the
Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any
World Wide Web server that publishes copyrightable works and also
provides prominent facilities for anybody to edit those works. A
public wiki that anybody can edit is an example of such a server. A
``Massive Multiauthor Collaboration'' (or ``MMC'')
 contained in the
site means any set of copyrightable works thus published on the MMC
site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0
license published by Creative Commons Corporation, a not-for-profit
corporation with a principal place of business in San Francisco,
California, as well as future copyleft versions of that license
published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or
in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this
License, and if all works that were first published under this License
somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the

MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.'' line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover
 Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as

changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                    TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without

permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is
 not conveying.

 An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

 1. Source Code.

 The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

 A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally

available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is covered
by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or

similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated

place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the

User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty or

limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

  8. Termination.

  You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or

modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that

transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this

License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may

not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"

WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software: you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to
do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
Unless otherwise stated, all files in this directory are Copyright (C)
1991,1992,1993,1994,1995,1996,1997,1998,1999,2000,2001,2002,2003,
2004,2005,2006,2007,2008,2009,2010,2011
Free Software Foundation, Inc.

See the file COPYING in the bash distribution root directory for copying
and usage restrictions.

The file ifs-posix.tests is Copyright (C) 2005 Glen Fowler.

1.289 logstash-logback-encoder 7.3

1.289.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2011 LMAX Ltd.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/LifecycleAware.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/EventFactory.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/SleepingWaitStrategy.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/EventProcessor.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/EventTranslatorOneArg.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/SequenceReportingEventHandler.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/dsl/ConsumerRepository.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/EventTranslatorTwoArg.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/SequenceGroup.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/BusySpinWaitStrategy.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/RingBuffer.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/dsl/EventProcessorInfo.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/util/DaemonThreadFactory.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/dsl/Disruptor.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/AlertException.java
*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/dsl/ExceptionHandlerSetting.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/NoOpEventProcessor.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/FatalExceptionHandler.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/ProcessingSequenceBarrier.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/BlockingWaitStrategy.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/SequenceBarrier.java
*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/IgnoreExceptionHandler.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/EventTranslatorThreeArg.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/LiteBlockingWaitStrategy.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/AggregateEventHandler.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/EventTranslator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/AbstractSequencer.java
*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/YieldingWaitStrategy.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/WorkerPool.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/PhasedBackoffWaitStrategy.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/SingleProducerSequencer.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/EventTranslatorVararg.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/MultiProducerSequencer.java
*

/opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/WorkHandler.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/WorkProcessor.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/WaitStrategy.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/util/Util.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/BatchEventProcessor.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/EventHandler.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/ExceptionHandler.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/dsl/EventHandlerGroup.java

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2012 LMAX Ltd.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

* http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/DataProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/dsl/ProducerType.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/FixedSequenceGroup.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/Sequence.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/Sequencer.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-

jar/net/logstash/logback/encoder/com/lmax/disruptor/InsufficientCapacityException.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/encoder/com/lmax/disruptor/SequenceGroups.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/encoder/com/lmax/disruptor/Cursored.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013-2022 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/loggingevent/LoggingEventCompositeJsonFormatter.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/util/ThreadLocalReusableByteBuffer.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/layout/LogstashLayout.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/accessevent/HeaderFilter.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/loggingevent/StackTraceJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/appender/destination/RandomDestinationConnectionStrategy.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/encoder/LogstashAccessEncoder.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/JsonFactoryAware.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/loggingevent/ThrowableClassNameJsonProvider.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/pattern/NodeWriter.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/util/TimeZoneUtils.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/AbstractThrowableClassNameJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/AccessEventJsonProviders.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/AbstractThreadNameJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/AccessEventCompositeJsonFormatter.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/mask/ValueMasker.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/LogstashMarkersJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/layout/AccessEventCompositeJsonLayout.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/CompositeJsonFactoryDecorator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/ThrowableRootCauseClassNameJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/RawMessageJsonProvider.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/FieldNamesAware.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/CompositeJsonEncoder.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/AbstractPatternJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/yaml/YamlJsonFactoryDecorator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/ContextJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/layout/LoggingEventCompositeJsonLayout.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/util/SimpleObjectJsonGeneratorDelegate.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/abbreviator/CachingAbbreviator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/util/LogbackUtils.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/abbreviator/NullAbbreviator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/FormattedTimestampJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/FeatureJsonFactoryDecorator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-

jar/net/logstash/logback/pattern/ValueGetter.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/util/ReusableByteBuffer.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/loggingevent/LoggingEventPatternJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/loggingevent/TagsJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/decorate/JsonGeneratorDecorator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/loggingevent/CallerDataJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/AbstractCompositeJsonFormatter.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/util/ThreadLocalHolder.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/decorate/JsonFactoryDecorator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/mask/PathBasedFieldMasker.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/appender/listener/AccessEventTcpAppenderListenerImpl.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/appender/listener/AccessEventAppenderListenerImpl.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/decorate/cbor/CborJsonFactoryDecorator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/encoder/StreamingEncoder.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/appender/RingBufferFullException.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/marker/MessageFormatCache.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/mask/MaskingJsonGenerator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/fieldnames/LogstashAccessFieldNames.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/argument/DeferredStructuredArgument.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/marker/DeferredLogstashMarker.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/appender/destination/DelegateDestinationConnectionStrategy.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/encoder/AccessEventCompositeJsonEncoder.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-

jar/net/logstash/logback/appender/listener/TcpAppenderListener.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/marker/ObjectFieldsAppendingMarker.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/SequenceJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/listener/FailureSummaryAppenderListener.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/LogstashAccessTcpSocketAppender.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/listener/FailureSummaryLoggingAppenderListener.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/AccessMessageJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/LoggingEventAsyncDisruptorAppender.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/argument/StructuredArgument.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/FastISOTimestampFormatter.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/RemoteHostJsonProvider.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/util/StringUtils.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/CompositeJsonFormatter.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/EscapeNonAsciiJsonFactoryDecorator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/UuidProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/ContextNameJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/fieldnames/Pre50LogstashAccessFieldNames.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/NullAbbreviator.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/AbstractThrowableMessageJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/NotConnectedException.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/yaml/YamlFeatureJsonGeneratorDecorator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/AccessEventAsyncDisruptorAppender.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/abbreviator/DefaultTargetLengthAbbreviator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/AbstractNestedJsonProvider.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/AccessEventThreadNameJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/ResponseHeadersJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/LogstashUdpSocketAppender.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/LoggingEventFormattedTimestampJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/LoggingEventJsonProviders.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/MessageJsonProvider.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/LogLevelValueJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/RequestHeadersJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/LogstashVersionJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/LogLevelJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/status/DelegatingStatusListener.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/CompositeJsonGeneratorDecorator.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/destination/DestinationParser.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/MethodJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/LogstashAccessFormatter.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/NullJsonFactoryDecorator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/RemoteUserJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/SequenceJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/ProtocolJsonProvider.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/StackHashJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/FeatureDecorator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/AccessEventNestedJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/marker/RawJsonAppendingMarker.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/AccessEventFormattedTimestampJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/AsyncDisruptorAppender.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/RequestedUriJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/destination/RoundRobinDestinationConnectionStrategy.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/RequestedUrlJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/RootStackTraceElementJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/SeparatorParser.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/GlobalCustomFieldsJsonProvider.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/marker/ObjectAppendingMarker.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/CachingAbbreviator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/LogstashFormatter.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/smile/SmileFeatureJsonGeneratorDecorator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/mask/FieldMasker.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/ThrowableRootCauseMessageJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/ThreadNameJsonProvider.java
*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/NullJsonGeneratorDecorator.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/LogstashTcpSocketAppender.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/pattern/EnhancedPropertyConverter.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/util/ProxyOutputStream.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/ThrowableMessageJsonProvider.java
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-

jar/net/logstash/logback/pattern/AccessEventJsonPatternParser.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/stacktrace/ShortenedThrowableConverter.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/appender/destination/DestinationConnectionStrategyWithTtl.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/JsonReadingUtils.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/marker/Markers.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/layout/CompositeJsonLayout.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/decorate/PrettyPrintingJsonGeneratorDecorator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/fieldnames/LogstashCommonFieldNames.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/appender/listener/LoggingEventAppenderListenerImpl.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/stacktrace/StackHasher.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/accessevent/IncludeExcludeHeaderFilter.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/appender/destination/PreferPrimaryDestinationConnectionStrategy.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/decorate/FeatureJsonGeneratorDecorator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/marker/SingleFieldAppendingMarker.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/appender/LogstashAccessUdpSocketAppender.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/accessevent/ContentLengthJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/appender/WaitStrategyFactory.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/loggingevent/LoggingEventNestedJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/stacktrace/StackElementFilter.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/accessevent/AccessEventPatternJsonProvider.java

*

 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/loggingevent/LoggingEventThreadNameJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/composite/JsonWritingUtils.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-

jar/net/logstash/logback/pattern/PatternLayoutAdapter.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/ElapsedTimeJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/mask/RegexValueMasker.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/AbstractLogstashUdpSocketAppender.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/ArgumentsJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/marker/LogstashBasicMarker.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/ThrowableSelectors.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/listener/AppenderListener.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/fieldnames/ShortenedFieldNames.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/marker/EmptyLogstashMarker.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/fieldnames/LogstashFieldNames.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/pattern/LoggingEventJsonPatternParser.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/JsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/AbstractJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/marker/MapEntriesAppendingMarker.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/CharacterEscapesJsonFactoryDecorator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/argument/StructuredArguments.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/cbor/CborFeatureJsonGeneratorDecorator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/mask/MaskingJsonGeneratorDecorator.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/ShutdownInProgressException.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/SequenceJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/LogstashEncoder.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/JsonProviders.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/decorate/smile/SmileJsonFactoryDecorator.java

*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/accessevent/StatusCodeJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/pattern/AbstractJsonPatternParser.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/layout/LogstashAccessLayout.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/marker/LogstashMarker.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/status/LevelFilteringStatusListener.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/MdcJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/DelegatingAsyncDisruptorAppender.java

*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/AbstractFieldJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/LoggingEventCompositeJsonEncoder.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/destination/DestinationConnectionStrategy.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/listener/LoggingEventTcpAppenderListenerImpl.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/mask/FieldNameBasedFieldMasker.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/appender/AbstractLogstashTcpSocketAppender.java

*
 /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/AbstractFormattedTimestampJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/AbstractSequenceJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/UuidJsonProvider.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/composite/loggingevent/LoggerNameJsonProvider.java

No license file was found, but licenses were detected in source scan.

/* Copyright 2016 Gil Tene
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0

*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/util/ThreadHints.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2021 LMAX Ltd.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/net/logstash/logback/encoder/com/lmax/disruptor/ExceptionHandlers.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2013 LMAX Ltd.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

```
*/
```

Found in path(s):

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/encoder/com/lmax/disruptor/EventReleaseAware.java

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-
jar/net/logstash/logback/encoder/com/lmax/disruptor/EventReleaser.java

No license file was found, but licenses were detected in source scan.

```
<name>Apache License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0</url>
<name>MIT License</name>
org.slf4j.helpers.BasicMarker is released under the MIT License.</comments>
```

Found in path(s):

* /opt/cola/permits/1698264164_1685176641.094774/0/logstash-logback-encoder-7-3-sources-jar/META-
INF/maven/net.logstash.logback/logstash-logback-encoder/pom.xml

1.290 libphonenumber 8.13.12

1.290.1 Available under license :

JUnit

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

   a) in the case of the initial Contributor, the initial code and
    documentation distributed under this Agreement, and
   b) in the case of each subsequent Contributor:

   i) changes to the Program, and

   ii) additions to the Program;

   where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates' from a
Contributor if it was added to the Program by such Contributor itself or anyone
acting on such Contributor's behalf. Contributions do not include additions to
the Program which: (i) are separate modules of software distributed in
conjunction with the Program under their own license agreement, and

(ii) are
not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

   a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

   b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free
 patent license under
Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

   c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise.
 As a condition to
exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

   d) Each Contributor represents that to its knowledge it has sufficient

copyright rights in its Contribution, if any, to grant the copyright license
set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under
its own license agreement, provided that:

   a) it complies with the terms and conditions of this Agreement; and

   b) its license agreement:

   i) effectively disclaims on behalf of all Contributors all warranties and
conditions, express and implied, including warranties or conditions of title
and non-infringement, and implied
 warranties or conditions of merchantability
and fitness for a particular purpose;

   ii) effectively excludes on behalf of all Contributors all liability for
damages, including direct, indirect, special, incidental and consequential
damages, such as lost profits;

   iii) states that any provisions which differ from this Agreement are
offered by that Contributor alone and not by any other party; and

   iv) states that source code for the Program is available from such
Contributor, and informs licensees how to obtain it in a reasonable manner on
or through a medium customarily used for software exchange.

When the Program is made available in source code form:

   a) it must be made available under this Agreement; and

   b) a copy of this Agreement must be included with each copy of the
Program.

Contributors may not remove or alter any copyright notices contained within the
Program.

Each Contributor must identify itself as the originator of its Contribution,
 if
any, in a manner that reasonably allows subsequent Recipients to identify the
originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is

intended to facilitate the commercial use of the Program, the Contributor who
includes the Program in a commercial product offering should do so in a manner
which does not create potential liability for other Contributors. Therefore, if
a Contributor includes the Program in a commercial product offering, such
Contributor ("Commercial Contributor") hereby agrees to defend and indemnify
every other Contributor ("Indemnified Contributor") against any losses, damages
and costs (collectively "Losses") arising from claims, lawsuits and other legal
actions brought by a third party against the Indemnified Contributor to the
extent caused by the acts or omissions of such Commercial Contributor in
connection
 with its distribution of the Program in a commercial product
offering. The obligations in this section do not apply to any claims or Losses
relating to any actual or alleged intellectual property infringement. In order
to qualify, an Indemnified Contributor must: a) promptly notify the Commercial
Contributor in writing of such claim, and b) allow the Commercial Contributor
to control, and cooperate with the Commercial Contributor in, the defense and
any related settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product
offering, Product X. That Contributor is then a Commercial Contributor. If that
Commercial Contributor then makes performance claims, or offers warranties
related to Product X, those performance claims and warranties are such
Commercial Contributor's responsibility alone. Under this section, the
Commercial Contributor would have to defend claims
 against the other
Contributors related to those performance claims and warranties, and if a court
requires any other Contributor to pay any damages as a result, the Commercial
Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN
"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR
IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE,
NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each
Recipient is solely responsible for determining the appropriateness of using
and distributing the Program and assumes all risks associated with its exercise
of rights under this Agreement, including but not limited to the risks and
costs of program errors, compliance with applicable laws, damage to or loss of
data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS
 AGREEMENT, NEITHER RECIPIENT NOR ANY
CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST

PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted

under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury trial
in any resulting litigation.
Copyright (c) 2000-2005 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO
 EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.
The MIT License

Copyright (c) 2007 Mockito contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR
 IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
Copyright (c) 2003-2008, Objenesis Team and all contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
 OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

<div align="center">

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

</div>

 TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

 1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License,
each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: libphonenumber
Upstream-Contact: Fredrik Roubert <roubert@google.com>
Source: https://github.com/google/libphonenumber/

Files: * cpp/src/phonenumbers/base/logging.h
cpp/src/phonenumbers/base/thread_checker.h
cpp/src/phonenumbers/base/memory/singleton.h
cpp/src/phonenumbers/base/memory/singleton_posix.h
cpp/src/phonenumbers/base/synchronization/lock.h
cpp/src/phonenumbers/base/synchronization/lock_posix.h
cpp/src/phonenumbers/base/thread_checker.h
Copyright: 2011, The Libphonenumber Authors
License: Apache-2.0
On Debian systems, the full text of the Apache
License version 2.0 can be found in the file
`/usr/share/common-licenses/Apache-2.0'.

Files: cpp/src/phonenumbers/utf/rune.c
cpp/src/phonenumbers/utf/utf.h
cpp/src/phonenumbers/utf/utfdef.h
Copyright: 1998-2002, Lucent Technologies
License: MIT

Files: cpp/src/phonenumbers/base/*
tools/cpp/src/base/*
Copyright: 2006-2012, The Chromium
 Authors
License: BSD

Files: debian/*
Copyright: 2011, The Libphonenumber Authors
       2014, Daniel Pocock http://danielpocock.com
License: Apache-2.0
On Debian systems, the full text of the Apache
License version 2.0 can be found in the file
`/usr/share/common-licenses/Apache-2.0'.

License: MIT
Permission to use, copy, modify, and distribute this software for any
purpose without fee is hereby granted, provided that this entire notice
is included in all copies of any software which is or includes a copy
or modification of this software and in all copies of the supporting
documentation for such software.
THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
WARRANTY. IN PARTICULAR, NEITHER THE AUTHORS NOR LUCENT TECHNOLOGIES MAKE ANY
REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

License: BSD

Redistribution and use in source and binary forms, with or without
modification,
 are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following disclaimer
  in the documentation and/or other materials provided with the
  distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
// ---
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for Objenesis
// ---

Objenesis
Copyright 2006-2013 Joe Walnes, Henri Tremblay, Leonardo Mesquita
Mockito license - MIT.

Libraries used:

Cglib - Apache License 2.0
ASM - BSD license

Mockito all distribution:

Objenesis - MIT license
Hamcrest - BSD license

Copyright (C) 2011 The Libphonenumber Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This project contains a small number of files derived from the Chromium
project. They contain copyright notices such as this:

// Copyright (c) 2010 The Chromium Authors. All rights reserved.
// Use of this source code is governed by a BSD-style license that can be
// found in the LICENSE file.

Here is the full text of the LICENSE file from the Chromium project:

// Copyright 2014 The Chromium Authors. All rights reserved.
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
// met:
//
// * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
// * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following disclaimer
// in the documentation and/or other materials provided with the
// distribution.
// * Neither the name of Google Inc. nor the names of its
// contributors
 may be used to endorse or promote products derived from
// this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This is the list of people who have contributed to the repository.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.

Core team:
#
These people were responsible for the initial implementations in Java and
C++.

Shaopeng Jia
Lara Rennie
David Yonge-Mallo
David Beaumont

Team carrying out the bulk of metadata maintenance, bug fixes & feature
requests, and porting new features to Javascript.

Andy Staudacher
Aravind Penmetsa
David Beaumont
Kavitha Keshava
Keghani Kristelle Kouzoujian
Sumathi Sundara Murthy

Additional contributions:

Javascript
Nikolaos Tronikos
   -- Initial implementation, some subsequent maintenance.
James Wright
   -- Short number info port to Javascript.

Java:
Walter Erqunigo
   -- Timezone mapper.
Philippe Liard
   -- Offline geocoder, local Maven expert.
Cecilia Roes
   -- Carrier mapper.
Tom Hofmann
   -- First version
 of the PhoneNumberMatcher and related classes.
Fabien Allanic
Kushal Pisavadia

C++:

Patrick Mzard
  -- Geocoding library implementation.
Philippe Liard
  -- Initial open-sourcing of a C++ library, responsible for getting this to
    work across multiple platforms.
Ben Gertzfield
Fredrik Roubert
George Yakovlev
Gilles Vollant
  -- Contributed towards thread synchronization solutions.
Nico Weber
Yoshifumi Inoue

Debian:

Fredrik Roubert

Metadata:

Alec McTurk
Alexandru Manea
Amir Farsi
Andrs Eisenberger
Anssi Hannula
Boshi Lian -- Maintains Chinese geocoding data
Bradford Smith
Cecilia Roes
Florian Grisch
Fredrik Roubert
Ian Galpin -- Maintains the data for the UK
Javier Kohen
Jeanine Lilleng
Karen Lees
Khaled Hafez
Lei Zhang
monjiwired@
Philippe Liard
Sang-il Lee
Yugui Sonoda

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

<center>Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/</center>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License,
each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct

or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
BSD License

Copyright (c) 2000-2006, www.hamcrest.org

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of
conditions and the following disclaimer. Redistributions in binary form must reproduce
the above copyright notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the distribution.

Neither the name of Hamcrest nor the names of its contributors may be used to endorse
or promote products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT
SHALL THE COPYRIGHT OWNER
 OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY
WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

1.291 scanelf 1.3.7-r1

1.291.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses
 are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission
 to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program
or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute
verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish,
that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third

parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can
 be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program
 (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium

customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program
in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled
to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based
 on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to

these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit
 royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute
 software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions

of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies
 a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

   NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED
 BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY
 OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version
 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical
 commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.292 libxtst 1.2.4-r2
1.292.1 Available under license :

Copyright 1990, 1991 by UniSoft Group Limited
Copyright 1992, 1993, 1995, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice,
 the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

****

Copyright 1995 Network Computing Devices

Permission to use, copy, modify, distribute, and sell this software and

its documentation for any purpose is hereby granted without fee, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of Network Computing Devices
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.

NETWORK COMPUTING DEVICES DISCLAIMs ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS, IN NO EVENT SHALL NETWORK COMPUTING DEVICES BE LIABLE
FOR ANY SPECIAL,
 INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN
AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING
OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

****

Copyright 2005 Red Hat, Inc.

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of Red Hat not be used in
advertising or publicity pertaining to distribution of the software without
specific, written prior permission. Red Hat makes no
representations about the suitability of this software for any purpose. It
is provided "as is" without express or implied warranty.

RED HAT DISCLAIMS ALL WARRANTIES
 WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL RED HAT BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

****

Copyright 1992 by UniSoft Group Ltd.

Permission to use, copy, modify, and distribute this documentation for
any purpose and without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
UniSoft makes no representations about the suitability for any purpose of
the information in this document. This documentation is provided "as is"

without express or implied warranty.

****

****

1.293 libxi 1.8.1-r0

1.293.1 Available under license :

Copyright 1989, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used in advertising
 or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.

Copyright 1989 by Hewlett-Packard Company, Palo Alto, California.

  All Rights Reserved

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Hewlett-Packard not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

HEWLETT-PACKARD DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL HEWLETT-PACKARD BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN
 AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 2008 Peter Hutterer

Permission to use, copy, modify, distribute, and sell this software and its

documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE
 OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the author shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from the author.

Copyright 2009 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next
paragraph) shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

1.294 utmps-libs 0.1.2.1-r1

1.294.1 Available under license :

1.295 util-linux 2.38.1-r8

1.295.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M

this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use

this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
 terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library

with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany
the work with the complete corresponding
  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the

Sections above.

    b) Give prominent notice with the combined library of the fact
    that part of it is a work based on the Library, and explaining
    where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,

and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  <one line to give the library's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Lesser General Public
  License as published by the Free Software Foundation; either
  version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price.
Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for

this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the
Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause
any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work

are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary

form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then

the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free

Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU

General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License along
  with this program; if not, write to the Free Software Foundation, Inc.,
  51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute
it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

                GNU GENERAL PUBLIC LICENSE
                   Version 3, 29 June 2007

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,

distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source

includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your

work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years
and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and
  only if you received the object code with such an offer, in accord
  with subsection 6b.

  d) Convey the object code by offering access from a designated
  place (gratis or for a charge), and offer equivalent access to the
  Corresponding Source in

the same way through the same place at no

further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the

Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if

the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner

consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM

IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

          How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

  <program> Copyright (C) <year> <name of author>
  This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @ @ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED

WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

```
*/
```

1.296 libuuid 2.38.1-r8

1.296.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts

as the successor of the GNU Library Public License, version 2, hence

the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change

free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some

specially designated software packages--typically libraries--of the

Free Software Foundation and other authors who

 decide to use it. You

can use it too, but we suggest you first think carefully about whether

this license or the ordinary General Public License is the better

strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,

not price. Our General Public Licenses are designed to make sure that

you have the freedom to distribute copies of free software (and charge

for this service if you wish); that you receive source code or can get

it if you want it; that you can change the software and use pieces of

it in new free programs; and that you are informed that you can do

these things.

 To protect your rights, we need to make restrictions that forbid

distributors to deny you these rights or to ask you to surrender these

rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it

does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the

terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is
   interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
   least three years, to give the same user the materials
   specified in Subsection 6a, above, for a charge no more
   than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

           END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
    USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

<div align="center">

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

</div>

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their

rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the

notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause
any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
   received the program in object code or executable form with such
   an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is

void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                   NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS

TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                    END OF TERMS AND CONDITIONS

          How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.
                    GNU GENERAL PUBLIC LICENSE
                     Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                        Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to

any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to

avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based on the Program.

 To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy,
 is not conveying.

 An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a

menu, a prominent item in the list meets this criterion.

 1. Source Code.

 The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

 A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any

non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this
License to anyone who comes into possession of a copy. This
License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,

in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of

it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights
granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will

be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. Limitation of Liability.

  IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17.

Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                        END OF TERMS AND CONDITIONS

             How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

```
/*
 * Copyright (c) 1989 The Regents of the University of California.
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 * This product includes software developed by the University of
 * California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *
 without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */
```

1.297 fstrim 2.38.1-r8

1.297.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
 terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

   a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

   b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is
   interface-compatible with the version that the work was made with.

   c) Accompany the work with a written offer, valid for at
   least three years, to give the same user the materials
   specified in Subsection 6a, above, for a charge no more
   than the cost of performing this distribution.

   d) If distribution of the work is made by offering access to copy
   from a designated place, offer equivalent access to copy the above
   specified materials from the same place.

   e) Verify that the user has already received a copy of these
   materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies

the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.

You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,

but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                END OF TERMS AND CONDITIONS

         How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
    USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free

program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause

any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete

machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the

Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                    END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
 it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if

necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

<div align="center">

Preamble

</div>

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

 An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

 1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

 A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of

packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works

for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

b) The work must carry prominent notices stating that it is
released under this License and any conditions added under section
7. This requirement modifies the requirement in section
4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this
License to anyone who comes into possession of a copy. This
License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a

copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

 A separable portion of the object code, whose source code is excluded
from the Corresponding Source
 as a System Library, need not be
included in conveying the object code work.

 A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent

the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
   terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you

must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered
work, then the patent license
you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or
that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
 License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you

to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

          How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

 <program> Copyright (C) <year> <name of author>
 This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
 This is free software, and you are welcome to redistribute it
 under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read

<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1

This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.

* 4. Neither the name of the University nor the names of its contributors

*   may be used to endorse or promote products derived from this software

*

 without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

*/

1.298 fdisk 2.38.1-r8

1.298.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts

as the successor of the GNU Library Public License, version 2, hence

the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change

free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some

specially designated software packages--typically libraries--of the

Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the

ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must

be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

  2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or

collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that

uses the

library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

  8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

  9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to

refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our

decision
will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  <one line to give the library's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price.
  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
  gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

  Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

  The precise terms and conditions for copying, distribution and
modification follow.

                GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:

that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to

control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For

example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU
General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as

changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

                    TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without

permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The
 "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally

available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or

similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated

place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the

User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty

or limiting liability differently from the
terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or
author attributions in that material or in the Appropriate Legal
Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or
requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or

modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever

licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,

then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey

the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"

WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17.
Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

  <program> Copyright (C) <year> <name of author>
  This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote

products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES

WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

```
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */
```

1.299 findmnt 2.38.1-r8

1.299.1 Available under license :

```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
                 GNU LESSER GENERAL PUBLIC LICENSE
                    Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]


                   Preamble


 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.


 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.


 When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.
```

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library,
whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software
patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with

the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
   stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is
   interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your

rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

 11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse
 you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE

LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  <one line to give the library's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Lesser General Public
  License as published by the Free Software Foundation; either
  version 2.1 of the License, or (at your option) any later version.

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  Lesser General Public License for more details.

  You should have received a copy of the GNU Lesser General Public
  License along with this library; if not, write to the Free Software
  Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301

USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
                  GNU GENERAL PUBLIC LICENSE
                     Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                      Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN

OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU
 General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License along
  with this program; if not, write to the Free Software Foundation, Inc.,

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute
it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

<div align="center">

Preamble

</div>

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,

the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that

same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you

receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other

parts of the aggregate.

  6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years
and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and
  only if you received the object code with such an offer, in accord
  with subsection 6b.

  d) Convey the object code by offering access from a designated
  place (gratis or for a charge), and offer equivalent access to the
  Corresponding Source in
the same way through the same place at no
  further charge. You need not require recipients to copy the
  Corresponding Source along with the object code. If the place to
  copy the object code is a network server, the Corresponding Source
  may be on a different server (operated by you or a third party)
  that supports equivalent copying facilities, provided you maintain
  clear directions next to the object code saying where to find the
  Corresponding Source. Regardless of what server hosts the
  Corresponding Source, you remain obligated to ensure that it is
  available for as long as needed to satisfy these requirements.

  e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and

adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some

trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that

copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered

work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),

EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

  17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>

This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it

under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, your program's commands

might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,

if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU GPL, see

<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program

into proprietary programs. If your program is a subroutine library, you

may consider it more useful to permit linking proprietary applications with

the library. If this is what you want

to do, use the GNU Lesser General

Public License instead of this License. But first, please read

<https://www.gnu.org/licenses/why-not-lgpl.html>.

WEV @@ WEV[B "1

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions

are met:

1. Redistributions of source code must retain the above copyright

   notice, and the entire permission notice in its entirety,

   including the disclaimer of warranties.

2. Redistributions in binary form must reproduce the above copyright

   notice, this list of conditions and the following disclaimer in the

   documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote

   products derived from this software without specific prior

   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED

WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF

WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE

LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT

OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR

BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF

LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE

USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH

DAMAGE.

x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

```
/*
 * Copyright (c) 1989 The Regents of the University of California.
 * All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 * This product includes software developed by the University of
 * California, Berkeley and its contributors.
 * 4. Neither the name of the University nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *
 without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 */
```

1.300 partx 2.38.1-r8

1.300.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

NR	START	END	SECTORS	SIZE	NAME	UUID
1	32	7679	7648	3.7M		8f8378c0-01
2	7680	16383	8704	4.3M		8f8378c0-02
5	7936	12799	4864	2.4M		
6	12544	16127	3584	1.8M		

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the

library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting

the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation

and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding

machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library. (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
    Library. A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate
 properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

  e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is

normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any
other library
  facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the

Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
    USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so

that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause
any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections

1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR

THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                      END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
 it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may

be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that

is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains

in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the

terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a

typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the

entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work

occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the rights
 granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of

this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
 License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the

```
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

1.301 setpriv 2.38.1-r8

1.301.1 Available under license :

```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

 To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
 terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you

may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free

programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

                END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
              GNU GENERAL PUBLIC LICENSE
                 Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                 Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to

using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

            GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
   stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

            END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
 it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

                    GNU GENERAL PUBLIC LICENSE
                       Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                        Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

                    TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The
 "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,

regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and

only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

 A separable portion of the object code, whose source code is excluded
from the Corresponding Source
 as a System Library, need not be
included in conveying the object code work.

 A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of

that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright
holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an

organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone

to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY

APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

  <program> Copyright (C) <year> <name of author>
  This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

1.302 util-linux-misc 2.38.1-r8

1.302.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of

it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits

such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system

which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
                    GNU GENERAL PUBLIC LICENSE
                      Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).

Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as

distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU
 General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute
it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

                GNU GENERAL PUBLIC LICENSE
                   Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we

stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally
available free
programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding

---

Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

   a) Convey the object code in, or embodied in, a physical product
   (including a physical distribution medium), accompanied by the
   Corresponding Source fixed on a durable physical medium
   customarily used for software interchange.

   b) Convey the object code in, or embodied in, a physical product
   (including a physical distribution medium), accompanied by a
   written offer, valid for at least three years
 and valid for as
   long as you offer spare parts or customer support for that product
   model, to give anyone who possesses the object code either (1) a
   copy of the Corresponding Source for all the software in the
   product that is covered by this License, on a durable physical
   medium customarily used for software interchange, for a price no
   more than your reasonable cost of physically performing this
   conveying of source, or (2) access to copy the
   Corresponding Source from a network server at no charge.

   c) Convey individual copies of the object code with a copy of the
   written offer to provide the Corresponding Source. This
   alternative is allowed only occasionally and noncommercially, and
   only if you received the object code with such an offer, in accord
   with subsection 6b.

   d) Convey the object code by offering access from a designated
   place (gratis or for a charge), and offer equivalent access to the
   Corresponding Source in
 the same way through the same place at no
   further charge. You need not require recipients to copy the
   Corresponding Source along with the object code. If the place to
   copy the object code is a network server, the Corresponding Source
   may be on a different server (operated by you or a third party)
   that supports equivalent copying facilities, provided you maintain
   clear directions next to the object code saying where to find the
   Corresponding Source. Regardless of what server hosts the
   Corresponding Source, you remain obligated to ensure that it is

available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates

for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or

authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for

sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a

covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,

section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE

USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x　?"U@,5　@mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV　@mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B　"1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later

version.

The complete text of the license is available in the

../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

/*

* Copyright (c) 1989 The Regents of the University of California.

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.

* 3. All advertising materials mentioning features or use of this software

*   must display the following acknowledgement:

* This product includes software developed by the University of

* California, Berkeley and its contributors.

* 4. Neither the name of the University nor the names of its contributors

*   may be used to endorse or promote products derived from this software

*

 without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

*/

1.303 cfdisk 2.38.1-r8

1.303.1 Available under license :

NR	START	END	SECTORS	SIZE	NAME	UUID
1	32	7679	7648	3.7M		8f8378c0-01
2	7680	16383	8704	4.3M		8f8378c0-02
5	7936	12799	4864	2.4M		

6 12544 16127   3584 1.8M

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause
any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU
 General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License along
  with this program; if not, write to the Free Software Foundation, Inc.,
  51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute
 it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.
                    GNU LESSER GENERAL PUBLIC LICENSE
                       Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,

not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using

a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

                GNU LESSER GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other

program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary
GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may distribute the
 object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

 a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

 b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)

will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining

where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not

convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to

produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular

product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

  7. Additional Terms.

  "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the

entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

 You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work

occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of

this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
 License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                     END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

1.304 libmount 2.38.1-r8

1.304.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library,
whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

Finally, software
patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work
   based on the Library, uncombined with any
 other library
   facilities. This must be distributed under the terms of the
   Sections above.

   b) Give prominent notice with the combined library of the fact
   that part of it is a work based on the Library, and explaining
   where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you

---

may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free

programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to

using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
   stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

            END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
  General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
  it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program
  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,

regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and

only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of

that material) supplement the terms of this License with terms:

   a) Disclaiming warranty
 or limiting liability differently from the
   terms of sections 15 and 16 of this License; or

   b) Requiring preservation of specified reasonable legal notices or
   author attributions in that material or in the Appropriate Legal
   Notices displayed by works containing it; or

   c) Prohibiting misrepresentation of the origin of that material, or
   requiring that modified versions of such material be marked in
   reasonable ways as different from the original version; or

   d) Limiting the use for publicity purposes of names of licensors or
   authors of the material; or

   e) Declining to grant rights under trademark law for use of some
   trade names, trademarks, or service marks; or

   f) Requiring indemnification of licensors and authors of that
   material by anyone who conveys the material (or modified versions of
   it) with contractual assumptions of liability to the recipient, for
   any liability that these contractual assumptions directly impose on

   those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an

organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone

to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public
License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY

APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

   <program> Copyright (C) <year> <name of author>
   This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
   This is free software, and you are welcome to redistribute it
   under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote

products derived from this software without specific prior

written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

1.305 logger 2.38.1-r8

1.305.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of

it in new free programs; and that you are informed that you can do these things.

 To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

 When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits

such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

 a) Accompany the combined library with a copy of the same work
 based on the Library, uncombined with any
other library
 facilities. This must be distributed under the terms of the
 Sections above.

 b) Give prominent notice with the combined library of the fact
 that part of it is a work based on the Library, and explaining
 where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system

which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
                        GNU GENERAL PUBLIC LICENSE
                          Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                        Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).

Whether that is true depends on what the
Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause
any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as

distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we

stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

 1. Source Code.

 The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

 A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding

Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

   a) Convey the object code in, or embodied in, a physical product
   (including a physical distribution medium), accompanied by the
   Corresponding Source fixed on a durable physical medium
   customarily used for software interchange.

   b) Convey the object code in, or embodied in, a physical product
   (including a physical distribution medium), accompanied by a
   written offer, valid for at least three years
 and valid for as
   long as you offer spare parts or customer support for that product
   model, to give anyone who possesses the object code either (1) a
   copy of the Corresponding Source for all the software in the
   product that is covered by this License, on a durable physical
   medium customarily used for software interchange, for a price no
   more than your reasonable cost of physically performing this
   conveying of source, or (2) access to copy the
   Corresponding Source from a network server at no charge.

   c) Convey individual copies of the object code with a copy of the
   written offer to provide the Corresponding Source. This
   alternative is allowed only occasionally and noncommercially, and
   only if you received the object code with such an offer, in accord
   with subsection 6b.

   d) Convey the object code by offering access from a designated
   place (gratis or for a charge), and offer equivalent access to the
   Corresponding Source in
 the same way through the same place at no
   further charge. You need not require recipients to copy the
   Corresponding Source along with the object code. If the place to
   copy the object code is a network server, the Corresponding Source
   may be on a different server (operated by you or a third party)
   that supports equivalent copying facilities, provided you maintain
   clear directions next to the object code saying where to find the
   Corresponding Source. Regardless of what server hosts the
   Corresponding Source, you remain obligated to ensure that it is

available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates

for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or

authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for

sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a

covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,

section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE

USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

  The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later

version.

The complete text of the license is available in the

../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

/*

* Copyright (c) 1989 The Regents of the University of California.

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.

* 3. All advertising materials mentioning features or use of this software

*   must display the following acknowledgement:

* This product includes software developed by the University of

* California, Berkeley and its contributors.

* 4. Neither the name of the University nor the names of its contributors

*   may be used to endorse or promote products derived from this software

*

 without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

*/

1.306 mcookie 2.38.1-r8

1.306.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
 terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
properly with a modified version of the library, if
   the user installs one, as long as the modified version is
   interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
   least three years, to give the same user the materials
   specified in Subsection 6a, above, for a charge no more
   than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
   from a designated place, offer equivalent access to copy the above
   specified materials from the same place.

  e) Verify that the user has already received a copy of these
   materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
   based on the Library, uncombined with any
 other library
   facilities. This must be distributed under the terms of the
   Sections above.

  b) Give prominent notice with the combined library of the fact
   that part of it is a work based on the Library, and explaining
   where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

                    END OF TERMS AND CONDITIONS

         How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
    USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

<div align="center">GNU GENERAL PUBLIC LICENSE

Version 2, June 1991</div>

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price.
Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
   stating that you changed the files and the date of any change.

   b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

   c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide
   a warranty) and that users may redistribute the program under
   these conditions, and telling the user how to view a copy of this
   License. (Exception: if the Program itself is interactive but
   does not normally print such an announcement, your work based on
   the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
 it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not

convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to

produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular

product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the

entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

 You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work

occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of

this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
 License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the

```
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

1.307 mount 2.38.1-r8

1.307.1 Available under license :

```
NR START   END SECTORS SIZE NAME UUID
1   32  7679    7648 3.7M     8f8378c0-01
2  7680 16383    8704 4.3M     8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
               GNU LESSER GENERAL PUBLIC LICENSE
                  Version 2.1, February 1999


Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.


[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]


              Preamble


 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
```

Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

 When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

 We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

 For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

 Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may distribute the
 object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

 a) Accompany
the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work
   based on the Library, uncombined with any
other library
   facilities. This must be distributed under the terms of the
   Sections above.

   b) Give prominent notice with the combined library of the fact
   that part of it is a work based on the Library, and explaining
   where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you

may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free

programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to

using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
   stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

            END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
 it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,

regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years
and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and

only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of

that material) supplement the terms of this License with terms:

a) Disclaiming warranty
or limiting liability differently from the
terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or
author attributions in that material or in the Appropriate Legal
Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or
requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or
authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright
holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an

organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone

to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public
License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY

APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

        END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

```
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

1.308 umount 2.38.1-r8

1.308.1 Available under license :

```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

                GNU LESSER GENERAL PUBLIC LICENSE
                    Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of

it in new free programs; and that you are informed that you can do these things.

 To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

 When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits

such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

  GNU LESSER GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library. (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
    Library. A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate
properly with a modified version of the library, if
    the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any
 other library
  facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system

which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
                    GNU GENERAL PUBLIC LICENSE
                      Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                        Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

 We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

 Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and modification follow.

        GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).

Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide
   a warranty) and that users may redistribute the program under
   these conditions, and telling the user how to view a copy of this
   License. (Exception: if the Program itself is interactive but
   does not normally print such an announcement, your work based on
   the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as

distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

---

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU
 General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we

stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

 1. Source Code.

 The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

 A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding

Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years
and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and
  only if you received the object code with such an offer, in accord
  with subsection 6b.

  d) Convey the object code by offering access from a designated
  place (gratis or for a charge), and offer equivalent access to the
  Corresponding Source in
the same way through the same place at no
  further charge. You need not require recipients to copy the
  Corresponding Source along with the object code. If the place to
  copy the object code is a network server, the Corresponding Source
  may be on a different server (operated by you or a third party)
  that supports equivalent copying facilities, provided you maintain
  clear directions next to the object code saying where to find the
  Corresponding Source. Regardless of what server hosts the
  Corresponding Source, you remain obligated to ensure that it is

available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates

for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or

authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for

sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a

covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,

section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE

USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later

version.

The complete text of the license is available in the

../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

/*

* Copyright (c) 1989 The Regents of the University of California.

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.

* 3. All advertising materials mentioning features or use of this software

*   must display the following acknowledgement:

* This product includes software developed by the University of

* California, Berkeley and its contributors.

* 4. Neither the name of the University nor the names of its contributors

*   may be used to endorse or promote products derived from this software

*

 without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

*/

1.309 uuidgen 2.38.1-r8

1.309.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M

<div align="center">

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

</div>

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is
   interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
   least three years, to give the same user the materials
   specified in Subsection 6a, above, for a charge no more
   than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
   from a designated place, offer equivalent access to copy the above
   specified materials from the same place.

  e) Verify that the user has already received a copy of these
   materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
   based on the Library, uncombined with any
 other library
   facilities. This must be distributed under the terms of the
   Sections above.

  b) Give prominent notice with the combined library of the fact
   that part of it is a work based on the Library, and explaining
   where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

13. The Free Software Foundation may publish
revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

                    END OF TERMS AND CONDITIONS

          How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
    USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

<div align="center">GNU GENERAL PUBLIC LICENSE

Version 2, June 1991</div>

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price.
Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause
any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU
 General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License along
  with this program; if not, write to the Free Software Foundation, Inc.,
  51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute
 it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

                TERMS AND CONDITIONS

 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not

convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to

produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular

product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the

entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
   terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
   author attributions in that material or in the Appropriate Legal
   Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
   requiring that modified versions of such material be marked in
   reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
   authors of the material; or

  e) Declining to grant rights under trademark law for use of some
   trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
   material by anyone who conveys the material (or modified versions of
   it) with contractual assumptions of liability to the recipient, for
   any liability that these contractual assumptions directly impose on

  those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

 You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work

occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of

this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the

```
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

1.310 runuser 2.38.1-r8

1.310.1 Available under license :

```
NR START   END SECTORS SIZE NAME UUID
1   32  7679    7648 3.7M     8f8378c0-01
2  7680 16383    8704 4.3M     8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
                GNU LESSER GENERAL PUBLIC LICENSE
                   Version 2.1, February 1999


Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.


[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]


               Preamble


 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
```

Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order
to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into
another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium,
provided that
you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
    charge to all third parties under the
  terms of this License.

  d) If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application. Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

 a) Accompany
the work with the complete corresponding
  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work
   based on the Library, uncombined with any
other library
   facilities. This must be distributed under the terms of the
   Sections above.

   b) Give prominent notice with the combined library of the fact
   that part of it is a work based on the Library, and explaining
   where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you

may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free

programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
                    GNU GENERAL PUBLIC LICENSE
                        Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                        Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to

using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

                GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
   stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

            END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
 it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,

regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and

only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of

that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

  8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright
holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an

organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone

to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

  13. Use with the GNU Affero General Public
License.

  Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

  14. Revised Versions of this License.

  The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

  Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

  If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

  Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

  15. Disclaimer of Warranty.

  THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY

APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17.
Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

  <program> Copyright (C) <year> <name of author>
  This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

1.311 lsblk 2.38.1-r8

1.311.1 Available under license :

NR START   END SECTORS SIZE NAME UUID
1   32 7679   7648 3.7M   8f8378c0-01
2 7680 16383   8704 4.3M   8f8378c0-02
5 7936 12799   4864 2.4M
6 12544 16127   3584 1.8M

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

                        Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of

it in new free programs; and that you are informed that you can do these things.

 To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

 When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits

such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany
the work with the complete corresponding
  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
  Library. A suitable mechanism is one that (1) uses at run time a
  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)
  will operate
properly with a modified version of the library, if
  the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any
other library
  facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system

which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish
revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  <one line to give the library's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Lesser General Public
  License as published by the Free Software Foundation; either
  version 2.1 of the License, or (at your option) any later version.

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
                    GNU GENERAL PUBLIC LICENSE
                       Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                        Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).

Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide
   a warranty) and that users may redistribute the program under
   these conditions, and telling the user how to view a copy of this
   License. (Exception: if the Program itself is interactive but
   does not normally print such an announcement, your work based on
   the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as

distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute
it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

                GNU GENERAL PUBLIC LICENSE
                  Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                  Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we

stand
ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding

Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years
and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and
  only if you received the object code with such an offer, in accord
  with subsection 6b.

  d) Convey the object code by offering access from a designated
  place (gratis or for a charge), and offer equivalent access to the
  Corresponding Source in
the same way through the same place at no
  further charge. You need not require recipients to copy the
  Corresponding Source along with the object code. If the place to
  copy the object code is a network server, the Corresponding Source
  may be on a different server (operated by you or a third party)
  that supports equivalent copying facilities, provided you maintain
  clear directions next to the object code saying where to find the
  Corresponding Source. Regardless of what server hosts the
  Corresponding Source, you remain obligated to ensure that it is

available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates

for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or

authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for

sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a

covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,

section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE

USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
   This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
   This is free software, and you are welcome to redistribute it
   under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later

version.

The complete text of the license is available in the

../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

/*

* Copyright (c) 1989 The Regents of the University of California.

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.

* 3. All advertising materials mentioning features or use of this software

*   must display the following acknowledgement:

* This product includes software developed by the University of

* California, Berkeley and its contributors.

* 4. Neither the name of the University nor the names of its contributors

*   may be used to endorse or promote products derived from this software

*

 without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

*/

1.312 blkid 2.38.1-r8

1.312.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M
<pre>
                GNU LESSER GENERAL PUBLIC LICENSE
                    Version 2.1, February 1999
</pre>

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is
   interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
   least three years, to give the same user the materials
   specified in Subsection 6a, above, for a charge no more
   than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
   from a designated place, offer equivalent access to copy the above
   specified materials from the same place.

  e) Verify that the user has already received a copy of these
   materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
   based on the Library, uncombined with any
 other library
   facilities. This must be distributed under the terms of the
   Sections above.

  b) Give prominent notice with the combined library of the fact
   that part of it is a work based on the Library, and explaining
   where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

                    END OF TERMS AND CONDITIONS

          How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
    USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

                GNU GENERAL PUBLIC LICENSE
                 Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

            Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we

                                             _____

              Open Source Used In Virtual Visitation System 3.0 3.0.2 - Update 3787

want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause
any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU
 General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License along
  with this program; if not, write to the Free Software Foundation, Inc.,
  51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute
 it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                  Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not

convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed;
section 10
makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to

produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular

product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in
ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the

entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
   terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
   author attributions in that material or in the Appropriate Legal
   Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
   requiring that modified versions of such material be marked in
   reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
   authors of the material; or

  e) Declining to grant rights under trademark law for use of some
   trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
   material by anyone who conveys the material (or modified versions of
   it) with contractual assumptions of liability to the recipient, for
   any liability that these contractual assumptions directly impose on

  those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

 You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work

occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of

this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the

```
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

1.313 setarch 2.38.1-r8

1.313.1 Available under license :

```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M     8f8378c0-01
2  7680 16383    8704 4.3M     8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
              GNU LESSER GENERAL PUBLIC LICENSE
                 Version 2.1, February 1999


Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.


[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]


                   Preamble


 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
```

Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
provided that
you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may distribute the
 object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any
other library
  facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you

may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free

programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
                    GNU GENERAL PUBLIC LICENSE
                       Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to

using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

               GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

              END OF TERMS AND CONDITIONS

         How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
 it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

                    TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,

regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and

only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of

that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
   terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
   author attributions in that material or in the Appropriate Legal
   Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
   requiring that modified versions of such material be marked in
   reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
   authors of the material; or

  e) Declining to grant rights under trademark law for use of some
   trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
   material by anyone who conveys the material (or modified versions of
   it) with contractual assumptions of liability to the recipient, for
   any liability that these contractual assumptions directly impose on

  those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright
holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an

organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone

to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY

APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the

---

documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote

products derived from this software without specific prior

written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*
  without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

1.314 wipefs 2.38.1-r8

1.314.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

NR	START	END	SECTORS	SIZE	NAME	UUID
1	32	7679	7648	3.7M		8f8378c0-01
2	7680	16383	8704	4.3M		8f8378c0-02
5	7936	12799	4864	2.4M		
6	12544	16127	3584	1.8M		

                    GNU LESSER GENERAL PUBLIC LICENSE
                         Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of

it in new free programs; and that you are informed that you can do
these things.

  To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

  For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

  We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

  To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

  Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

  When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits

such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany
the work with the complete corresponding
  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
  Library. A suitable mechanism is one that (1) uses at run time a
  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)
  will operate
properly with a modified version of the library, if
  the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
   based on the Library, uncombined with any
 other library
   facilities. This must be distributed under the terms of the
   Sections above.

  b) Give prominent notice with the combined library of the fact
   that part of it is a work based on the Library, and explaining
   where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system

which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

  12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

  13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

  14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

            END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  <one line to give the library's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Lesser General Public
  License as published by the Free Software Foundation; either
  version 2.1 of the License, or (at your option) any later version.

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
                    GNU GENERAL PUBLIC LICENSE
                       Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                         Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

 We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

 Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and modification follow.

            GNU GENERAL PUBLIC LICENSE
   TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

  0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).

Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide
   a warranty) and that users may redistribute the program under
   these conditions, and telling the user how to view a copy of this
   License. (Exception: if the Program itself is interactive but
   does not normally print such an announcement, your work based on
   the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as

distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we

stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally
available free
programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding

Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

   a) Convey the object code in, or embodied in, a physical product
   (including a physical distribution medium), accompanied by the
   Corresponding Source fixed on a durable physical medium
   customarily used for software interchange.

   b) Convey the object code in, or embodied in, a physical product
   (including a physical distribution medium), accompanied by a
   written offer, valid for at least three years
 and valid for as
   long as you offer spare parts or customer support for that product
   model, to give anyone who possesses the object code either (1) a
   copy of the Corresponding Source for all the software in the
   product that is covered by this License, on a durable physical
   medium customarily used for software interchange, for a price no
   more than your reasonable cost of physically performing this
   conveying of source, or (2) access to copy the
   Corresponding Source from a network server at no charge.

   c) Convey individual copies of the object code with a copy of the
   written offer to provide the Corresponding Source. This
   alternative is allowed only occasionally and noncommercially, and
   only if you received the object code with such an offer, in accord
   with subsection 6b.

   d) Convey the object code by offering access from a designated
   place (gratis or for a charge), and offer equivalent access to the
   Corresponding Source in
 the same way through the same place at no
   further charge. You need not require recipients to copy the
   Corresponding Source along with the object code. If the place to
   copy the object code is a network server, the Corresponding Source
   may be on a different server (operated by you or a third party)
   that supports equivalent copying facilities, provided you maintain
   clear directions next to the object code saying where to find the
   Corresponding Source. Regardless of what server hosts the
   Corresponding Source, you remain obligated to ensure that it is

available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates

for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or

authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for

sale, or importing the Program or any portion of it.

11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a

covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,

section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE

USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17.
Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
   This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
   This is free software, and you are welcome to redistribute it
   under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later

version.

The complete text of the license is available in the

../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

/*

* Copyright (c) 1989 The Regents of the University of California.

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.

* 3. All advertising materials mentioning features or use of this software

*   must display the following acknowledgement:

* This product includes software developed by the University of

* California, Berkeley and its contributors.

* 4. Neither the name of the University nor the names of its contributors

*   may be used to endorse or promote products derived from this software

*

 without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

*/

1.315 sfdisk 2.38.1-r8

1.315.1 Available under license :

NR	START	END	SECTORS	SIZE	NAME	UUID
1	32	7679	7648	3.7M		8f8378c0-01
2	7680	16383	8704	4.3M		8f8378c0-02
5	7936	12799	4864	2.4M		

6 12544 16127   3584 1.8M

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

   a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

   b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is
   interface-compatible with the version that the work was made with.

   c) Accompany the work with a written offer, valid for at
   least three years, to give the same user the materials
   specified in Subsection 6a, above, for a charge no more
   than the cost of performing this distribution.

   d) If distribution of the work is made by offering access to copy
   from a designated place, offer equivalent access to copy the above
   specified materials from the same place.

   e) Verify that the user has already received a copy of these
   materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
   based on the Library, uncombined with any
 other library
   facilities. This must be distributed under the terms of the
   Sections above.

  b) Give prominent notice with the combined library of the fact
   that part of it is a work based on the Library, and explaining
   where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                        NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
    USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause
any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU
 General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License along
  with this program; if not, write to the Free Software Foundation, Inc.,
  51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute
 it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

                    GNU GENERAL PUBLIC LICENSE
                      Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                        Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

                    TERMS AND CONDITIONS

 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not

convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to

produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular

product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the

entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
   terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
   author attributions in that material or in the Appropriate Legal
   Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
   requiring that modified versions of such material be marked in
   reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
   authors of the material; or

  e) Declining to grant rights under trademark law for use of some
   trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
   material by anyone who conveys the material (or modified versions of
   it) with contractual assumptions of liability to the recipient, for
   any liability that these contractual assumptions directly impose on

   those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

 You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work

occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of

this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
    including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
    written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the

```
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

1.316 flock 2.38.1-r8

1.316.1 Available under license :

```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
provided that
you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
 terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any
other library
  facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you

may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free

programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

  15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

            END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
                    GNU GENERAL PUBLIC LICENSE
                      Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to

using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
   stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

            END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute
 it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand
ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,

regardless of how they are packaged. This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and

only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of

that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

  All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

  If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

  Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

  8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an

organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

 11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone

to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
 License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY

APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

            END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote

 products derived from this software without specific prior

 written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

1.317 losetup 2.38.1-r8

1.317.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

6 12544 16127   3584 1.8M

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of

it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits

such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the
terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do

this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate
 properly with a modified version of the library, if
   the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system

which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

         END OF TERMS AND CONDITIONS

          How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  <one line to give the library's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Lesser General Public
  License as published by the Free Software Foundation; either
  version 2.1 of the License, or (at your option) any later version.

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price.
Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

 We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which
 gives you legal permission to copy, distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

 Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).

Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as

distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

            END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU
 General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to
freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we

stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

 "This License" refers to version 3 of the GNU General Public License.

 "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

 "The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

 To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

 A "covered work" means either the unmodified Program or a work based
on the Program.

 To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

 To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

 1. Source Code.

 The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

 A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

 The
 "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

 The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding

Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years
and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and
  only if you received the object code with such an offer, in accord
  with subsection 6b.

  d) Convey the object code by offering access from a designated
  place (gratis or for a charge), and offer equivalent access to the
  Corresponding Source in
the same way through the same place at no
  further charge. You need not require recipients to copy the
  Corresponding Source along with the object code. If the place to
  copy the object code is a network server, the Corresponding Source
  may be on a different server (operated by you or a third party)
  that supports equivalent copying facilities, provided you maintain
  clear directions next to the object code saying where to find the
  Corresponding Source. Regardless of what server hosts the
  Corresponding Source, you remain obligated to ensure that it is

available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization
keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates

for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or

authors of the material; or

e) Declining to grant rights under trademark law for use of some
trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that
material by anyone who conveys the material (or modified versions of
it) with contractual assumptions of liability to the recipient, for
any liability that these contractual assumptions directly impose on

those licensors and authors.

All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

 10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for

sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a

covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,

section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE

USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

           How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

  <program> Copyright (C) <year> <name of author>
  This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later

version.

The complete text of the license is available in the

../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

/*

* Copyright (c) 1989 The Regents of the University of California.

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

* 1. Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* 2. Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.

* 3. All advertising materials mentioning features or use of this software

*   must display the following acknowledgement:

* This product includes software developed by the University of

* California, Berkeley and its contributors.

* 4. Neither the name of the University nor the names of its contributors

*   may be used to endorse or promote products derived from this software

*

 without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

*/

1.318 hexdump 2.38.1-r8

1.318.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1   32 7679   7648 3.7M   8f8378c0-01

2 7680 16383   8704 4.3M   8f8378c0-02

5 7936 12799   4864 2.4M

---

6 12544 16127   3584 1.8M
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
 such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting
 the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
 terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
 uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

  You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany
the work with the complete corresponding
    machine-readable source code for the Library including whatever
    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library. (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
    Library. A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate
properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
    specified in Subsection 6a, above, for a charge no more
    than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

  e) Verify that the user has already received a copy of these
    materials or that you have already sent this user a copy.

  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
 distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
   based on the Library, uncombined with any
 other library
   facilities. This must be distributed under the terms of the
   Sections above.

  b) Give prominent notice with the combined library of the fact
   that part of it is a work based on the Library, and explaining
   where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
 you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system
 which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision
 will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
 BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

                    END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey
 the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301
    USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.
 Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

   a) You must cause the modified files to carry prominent notices
   stating that you changed the files and the date of any change.

   b) You must cause
any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

   c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide
   a warranty) and that users may redistribute the program under
   these conditions, and telling the user how to view a copy of this
   License. (Exception: if the Program itself is interactive but
   does not normally print such an announcement, your work based on
   the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

   3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU
 General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License along
  with this program; if not, write to the Free Software Foundation, Inc.,
  51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute
 it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
 is what you want to do, use the GNU Lesser General
Public License instead of this License.

<div align="center">

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

</div>

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1)
assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The
 "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

  2. Basic Permissions.

  All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

  You may make, run and propagate covered works that you do not

convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to

produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium
  customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source
as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular

product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the

entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law. If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of
it. (Additional permissions may be written to require their own
removal in certain cases when you modify the work.) You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

 You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

 You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work

occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of

this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
 License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, and the entire permission notice in its entirety,
   including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL
 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-

./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the

*   documentation and/or other materials provided with the distribution.

* 3. All advertising materials mentioning features or use of this software

*   must display the following acknowledgement:

* This product includes software developed by the University of

* California, Berkeley and its contributors.

* 4. Neither the name of the University nor the names of its contributors

*   may be used to endorse or promote products derived from this software

*

 without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.

*/

1.319 jaxb-runtime 2.3.8

1.319.1 Available under license :

Copyright (c) 2018 Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 - Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 - Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

 - Neither the name of the Eclipse Foundation, Inc. nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE

DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Notices for Eclipse Implementation of JAXB

This content is produced and maintained by the Eclipse Implementation of JAXB
project.

* Project home: https://projects.eclipse.org/projects/ee4j.jaxb-impl

Trademarks

Eclipse Implementation of JAXB is a trademark of the Eclipse Foundation.

Copyright

All content is the property of the respective authors or their employers. For
more information regarding authorship of content, please consult the listed
source code repository logs.

Declared Project Licenses

This program and the accompanying materials are made available under the terms
of the Eclipse Distribution License v. 1.0 which is available at
http://www.eclipse.org/org/documents/edl-v10.php.

SPDX-License-Identifier: BSD-3-Clause

Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
*
 https://github.com/eclipse-ee4j/jaxb-stax-ex
* https://github.com/eclipse-ee4j/jax-rpc-ri

Third-party Content

This project leverages the following third party content.

Apache Ant (1.10.2)

* License: Apache-2.0 AND W3C AND LicenseRef-Public-Domain

Apache Ant (1.10.2)

* License: Apache-2.0 AND W3C AND LicenseRef-Public-Domain

Apache Felix (1.2.0)

* License: Apache License, 2.0

args4j (2.33)

* License: MIT License

dom4j (1.6.1)

* License: Custom license based on Apache 1.1

file-management (3.0.0)

* License: Apache-2.0
* Project: https://maven.apache.org/shared/file-management/
* Source:
  https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/

JUnit (4.12)

* License: Eclipse Public License

JUnit (4.12)

* License: Eclipse Public License

maven-compat (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-compat/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core
 (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html

* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source:
  https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-connector-basic (1.1.1)

* License: Apache-2.0

maven-resolver-impl (1.1.1)

* License: Apache-2.0

maven-resolver-spi (1.1.1)

* License: Apache-2.0

maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

* License: Apache-2.0

maven-settings
 (3.5.2)

* License: Apache-2.0

* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

OSGi Service Platform Core Companion Code (6.0)

* License: Apache License, 2.0

plexus-archiver (3.5)

* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

* License: Apache-2.0

plexus-utils (3.1.0)

* License: Apache- 2.0 or Apache- 1.1 or BSD or Public Domain or Indiana
  University Extreme! Lab Software License V1.1.1 (Apache 1.1 style)

relaxng-datatype (1.0)

* License: New BSD license

Sax (0.2)

* License: SAX-PD
* Project: http://www.megginson.com/downloads/SAX/
* Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
*
 Project: https://maven.apache.org/wagon/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

xz for java (1.8)

* License: LicenseRef-Public-Domain

Cryptography

Content may contain encryption software. The country in which you are currently
may have restrictions on the import, possession, and use, and/or re-export to
another country, of encryption software. BEFORE using any encryption software,
please check the country's laws, regulations and policies concerning the import,
possession, or use, and re-export of encryption software, to see if this is
permitted.

1.320 mongodb-driver-core 4.9.0

1.320.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
* Copyright 2010 The Guava Authors
* Copyright 2011 The Guava Authors
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/annotations/Evolving.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/annotations/Sealed.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/annotations/Beta.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
*

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*
* Original Work: MIT License, Copyright (c) [2015-2020] all contributors
* https://github.com/marianobarrios/tls-channel
*/

Found in path(s):
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/impl/TlsExplorer.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/ServerTlsChannel.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/async/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/spi/dns/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/SniSslContextFactory.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/internal/connection/tlschannel/util/Util.java
*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/util/DirectBufferDeallocator.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelCallbackException.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/DirectBufferAllocator.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/async/ExtendedAsynchronousByteChannel.java
*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/HeapBufferAllocator.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUNumber WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/DateRangeSearchOperatorBase.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/densify/NumberDensifyRange.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/NumberRangeSearchOperatorBase.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/densify/DateDensifyRange.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/lang/NonNull.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/ServerVersionHelper.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/TransactionOptions.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/lang/NonNullApi.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ReadConcernHelper.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/lang/Nullable.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ServerApi.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/lang/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ServerApiVersion.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/WriteConcernHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/LoggerSettings.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ReadPreferenceHedgeOptions.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
* Copyright 2017 Tom Bentley
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/authentication/SaslPrep.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
* Copyright (c) 2008-2014 Atlassian Pty Ltd
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

*/

Found in path(s):
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/assertions/Assertions.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/diagnostics/logging/Loggers.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/AsyncWriteBinding.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/bulk/package-info.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchOperator.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/AutoEncryptionSettings.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoCursorNotFoundException.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionPoolClosedEvent.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DefaultServerConnection.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/MultiPolygonCodec.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/MultiPoint.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/TagSet.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/GeoNearConstructibleBson.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/LineString.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/BasicDBObject.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ClientMetadataHelper.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/authentication/AwsSdkV1CredentialSupplier.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/Point.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/changestream/FullDocument.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/logging/StructuredLoggingInterceptor.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/TaggableReadPreference.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AggregateOperation.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/changestream/ChangeStreamDocumentCodec.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/RangeConstructibleBsonElement.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AsyncExplainableReadOperation.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ClusterClock.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/PolygonCodec.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/ClusteredIndexOptions.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ServerMonitor.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/fill/FillConstructibleBson.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ScramShaAuthenticator.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/SwitchCase.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/WriteOperation.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/internal/client/model/changestream/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/ValueBoostSearchScore.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/AwsAuthenticator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ConnectionString.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlNumber.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoIncompatibleDriverException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/IdHoldingBsonWriter.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/authentication/AwsCredentialHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/NoOpCommandEventSender.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionPoolReadyEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/GeometryEncoderHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/client/model/ToMap.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/InternalConnectionInitializer.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/FacetSearchCollector.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/vault/RangeOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/CreateEncryptedCollectionParams.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/result/InsertManyResult.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/GeoJsonObjectType.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/Time.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/InsertManyOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoNamespace.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/AddSearchScoreExpression.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/CheckedSupplier.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/TransactionContext.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/BasicDBObjectFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Accumulators.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/PolygonCoordinates.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/Pool.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/DuplicateKeyException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ClusterableServerFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CreateViewOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/AsyncClusterAwareReadWriteBinding.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ClusterSettings.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/NoOpSessionContext.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/AbstractMultiServerCluster.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/CollationCaseFirst.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ClusterDescription.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ClusterListener.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ClientSessionOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/FilterCompoundSearchOperator.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/inject/SameObjectProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/UpdateOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoServerUnavailableException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/client/vault/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/AsyncConnectionSource.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/event/ConnectionCheckOutFailedEvent.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/DBRef.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/UpdateManyModel.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/changestream/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CommandResultArrayCodec.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/DateRangeConstructibleBsonElement.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/FuzzySearchOptions.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/vault/RewrapManyDataKeyResult.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/inject/Provider.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/CommandHelper.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/FutureAsyncCompletionHandler.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/LoggingCommandEventSender.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoSocketReadTimeoutException.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/dns/DefaultDnsResolver.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/package-info.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoBulkWriteException.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/AsyncConnection.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/inject/OptionalProvider.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/StreamFactoryFactory.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ClusterListenerAdapter.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlExpressionCodec.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/SslHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AggregateToCollectionOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/GeoNearSearchOperator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DescriptionHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/AuthorizationHeader.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ExplainVerbosity.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/LowerBoundSearchCount.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DecimalFormatHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/SocketSettings.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AsyncQueryBatchCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/EstimatedDocumentCountOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/result/DeleteResult.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/CoordinateReferenceSystem.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ConnectionId.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/authentication/GcpCredentialHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ClusterDescriptionHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/UnwindOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/ValidationLevel.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/management/JMXMBeanServer.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/Polygon.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/selector/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/ExpirableValue.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ClusterConnectionMode.java

*

/opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/fill/LinearFillOutputField.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionRemovedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/BufferProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/GeoJsonCodecProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchPath.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/GeometryCollection.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ServerType.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/SplittablePayloadBsonWriter.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/IndexMap.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/selector/ServerSelector.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CreateCollectionOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/Stream.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CommandReadOperation.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/OperationHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/RenameCollectionOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/netty/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchHighlight.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/netty/NettyStreamFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DefaultSdamServerDescriptionManager.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DefaultDnsSrvRecordMonitorFactory.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/AsyncReadWriteBinding.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/internal/connection/SocketStream.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/ErrorHandlingResultCallback.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DnsSrvRecordInitializer.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/ConstantSearchScore.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/MapReduceAction.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoCredential.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlValue.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/ConstantSearchScoreExpression.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ServerMonitorListener.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/AutocompleteSearchOperator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/BaseCluster.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/DBObject.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/gridfs/model/GridFSFile.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ClusterClosedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/TotalSearchCount.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/LevelCountingBsonWriter.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ServerVersion.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/WriteConcernException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/BasicDBList.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ServerListener.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/InternalStreamConnectionFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/diagnostics/logging/NoOpLogger.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ServerAddressHelper.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/densify/DensifyOptions.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/ReadBinding.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlArray.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/session/ServerSessionPool.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoInternalException.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ZstdCompressor.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DnsMultiServerCluster.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/function/RetryingAsyncCallbackSupplier.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/fill/LocfFillOutputField.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/FindAndDeleteOperation.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/WindowOutputField.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/TextSearchOperator.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/function/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CountDocumentsOperation.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ServerConnectionState.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/FieldSearchPath.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/SingleServerBinding.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlUnchecked.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/management/NullMBeanServer.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ServerDescription.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/bulk/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/spi/dns/DnsException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoUpdatedEncryptedFieldsException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/AsyncAggregateResponseBatchCursor.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/AsyncBatchCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/MultiServerCluster.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/dns/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ProtocolHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/UpdateOneModel.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchConstructibleBsonElement.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ConcurrentPool.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/CompoundSearchOperatorBase.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/InternalConnectionPoolSettings.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/VisibleForTesting.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/X509Authenticator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/management/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/DateNearSearchOperator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ServerAddress.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/selector/package-info.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/MustNotCompoundSearchOperator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/QueryBatchCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Filters.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/spi/dns/DnsWithResponseCodeException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/FindOneAndReplaceOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/LogSearchScoreExpression.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/AsyncCompletionHandler.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ServerClosedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ContextProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/RequestContext.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/fill/FillConstructibleBsonElement.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/Geometry.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/CommandFailedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/RenameCollectionOperation.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/vault/DataKeyOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/densify/DensifyRange.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/validator/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/SnappyCompressor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AggregateOperationImpl.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionPoolListener.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoClientException.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/SocketStreamHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/inject/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/DateSearchFacet.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/ReferenceCounted.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoSocketReadException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/bulk/WriteConcernError.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/MongoNotPrimaryException.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/MongoConnectionPoolClearedException.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/bulk/InsertRequest.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/operation/MapReduceToCollectionOperation.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/DefaultServer.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/SplittablePayload.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/event/ServerListenerMulticaster.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/model/mql/MqlString.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/model/DropCollectionOptions.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/event/CommandListener.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/Timeout.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/result/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/connection/netty/NettyByteBuf.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/IgnorableRequestContext.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/model/mql/MqlMap.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/ResponseBuffers.java
*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/model/geojson/codecs/GeometryCodec.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/DefaultAuthenticator.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/CompressedMessage.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/event/CommandSucceededEvent.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/model/ChangeStreamPreAndPostImagesOptions.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/model/changestream/TruncatedArray.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/DocumentToDBRefTransformer.java

*
/opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/authentication/AwsSdkV2CredentialSupplier.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/event/EventListenerHelper.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/LoadBalancedClusterableServerFactory.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/management/ConnectionPoolStatistics.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/densify/package-info.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ByteBufferBsonOutput.java
*
/opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionAddedEvent.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/bulk/BulkWriteInsert.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DnsSrvRecordMonitor.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/InternalStreamConnection.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/Cluster.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/Compressor.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/MongoWriteConcernWithResponseException.java
*
/opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/DeleteOptions.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/GeoNearOptions.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/client/model/AggregationLevel.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/ExplainHelper.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/ReadWriteBinding.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionPoolCreatedEvent.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/BSONTimestampCodec.java
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ServerHeartbeatStartedEvent.java
*
/opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/MixedBulkWriteOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/CollationAlternate.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/annotations/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/gridfs/codecs/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/diagnostics/logging/Logger.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/dns/JndiDnsClient.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlEntry.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ExponentiallyWeightedMovingAverage.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionCheckedOutEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/NumberRangeConstructibleBsonElement.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ClusterableServer.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/spi/dns/DnsClient.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/AsyncReadBinding.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/BranchesIntermediary.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/DBObjectCodecProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodecProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/CreateIndexCommitQuorum.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/gridfs/model/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/ExistsSearchOperator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/CommandMessage.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/bulk/BulkWriteError.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/WriteConcernResult.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/EventHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/client/model/mql/MqlDocument.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/SpeculativeAuthenticator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/FunctionSearchScore.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/BsonField.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/RequestMessage.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/BulkWriteBatch.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/DocumentHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/ListIndexesOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/WriteModel.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/MongoCredentialWithCache.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ServerMonitorListenerAdapter.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchConstructibleBson.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/GeometryDecoderHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/DeleteOneModel.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/vault/EncryptOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoInterruptedException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ServerCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/AsyncClusterBinding.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/BsonArrayWrapper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/QueryResult.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/ReplaceOneModel.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/PointCodec.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DefaultClusterableServerFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/DropCollectionOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/BuildersHelper.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ClientEncryptionSettings.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/ChangeStreamBatchCursorHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/function/AsyncCallbackFunction.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AsyncReadOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/HexUtils.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/assertions/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlValues.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchCount.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/session/BaseClientSessionImpl.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ConnectionPool.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/MergeOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ServerTypeHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/netty/NettyBufferProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/Server.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/MultiLineStringCodec.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoGridFSException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/selector/LatencyMinimizingServerSelector.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/BulkWriteBatchCombiner.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AsyncChangeStreamBatchCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/ReadConcern.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/event/ServerDescriptionChangedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/operation/AsyncOperations.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/ConnectionFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/model/InsertOneModel.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/AwsCredential.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/operation/OperationReadConcernHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/event/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/Tag.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/model/ValidationAction.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/client/model/changestream/ChangeStreamLevel.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/operation/MapReduceInlineResultsAsyncCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/Connection.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/session/ClientSessionContext.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/PlainAuthenticator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/ElementExtendingBsonWriter.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/operation/FindAndUpdateOperation.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/session/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/async/function/AsyncCallbackRunnable.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/model/search/MultiplySearchScoreExpression.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/MongoSocketOpenException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/client/model/search/PathBoostSearchScore.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-
jar/com/mongodb/internal/connection/ReplyMessage.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/spi/dns/DnsClientProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/BranchesTerminal.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoNodeIsRecoveringException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/management/ConnectionPoolStatisticsMBean.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/PushOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/BsonWriterHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/validator/NoOpFieldNameValidator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoDriverInformation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/gridfs/model/GridFSDownloadOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/CollationStrength.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ReadPreference.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/validator/UpdateFieldNameValidator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/TopologyVersionHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CommandOperationHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlBoolean.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/fill/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/session/ServerSession.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoSocketWriteException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/SdamServerDescriptionManager.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/InternalConnection.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/client/model/AbstractConstructibleBsonElement.java

*

/opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/event/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Window.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/function/RetryingSyncSupplier.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/MapReduceInlineResultsCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/bulk/BulkWriteResult.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/CollationMaxVariable.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/ReplaceOptions.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CommitTransactionOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoChangeStreamException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/Position.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/session/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/authentication/BuiltInAwsCredentialSupplier.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/SendMessageCallback.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ServerTuple.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Collation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/CreateViewOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/InternalStreamConnectionInitializer.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlExpression.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CommandResultCodecProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/gridfs/model/GridFSUploadOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/logging/StructuredLogger.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/CreateIndexOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/internal/thread/DaemonThreadFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchFacet.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Projections.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/LineStringCodec.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/ExpressionCodecProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/bulk/BulkWriteUpsert.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/WriteBinding.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/UsageTrackingInternalConnection.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/Locks.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/CommandEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ReplyHeader.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/management/MBeanServer.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/SyncOperations.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlInteger.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/StreamFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/thread/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ClusterOpeningEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/changestream/FullDocumentBeforeChange.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/SimpleExpression.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/authentication/NativeAuthenticationHelper.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/management/JMXConnectionPoolListener.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/BucketGranularity.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ClusterType.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/MapReduceBatchCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/CompressedHeader.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoExecutionTimeoutException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/GSSAPIAuthenticator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/UnixSocketChannelStream.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchScoreExpression.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionReadyEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/AbstractReferenceCounted.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AsyncSingleBatchQueryCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/MapReduceStatistics.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/CreateCollectionOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/MapReduceHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/retry/AttachmentKeys.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionPoolClearedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/AbstractGeometryCodec.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/authentication/HttpHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DefaultServerMonitor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ServerId.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/BasicDBObjectBuilder.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/vault/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/AsynchronousSocketChannelStream.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/client/model/IndexOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AbortTransactionOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoConfigurationException.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/CommandStartedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/session/SessionContext.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/CommandProtocolImpl.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchScore.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DefaultConnectionFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/TimeSeriesGranularity.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/ValidationOptions.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/capi/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/BucketAutoOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ProtocolExecutor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/selector/CompositeServerSelector.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/AsynchronousClusterEventListener.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoSocketException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CommandResultDocumentCodec.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Facet.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/MessageSettings.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoServerException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/TimeSeriesOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/WindowOutputFields.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/management/MBeanServerFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ClusterId.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/Log1pSearchScoreExpression.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DefaultConnectionPool.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/bulk/DeleteRequest.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Sorts.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/fill/FillOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/bulk/WriteRequestWithIndex.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ServerDescriptionHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ByteBufBsonDocument.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/FindOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CursorHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/function/RetryState.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/ConnectionSource.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/DBRefCodec.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/DropDatabaseOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/MultiPointCodec.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/Iterables.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/BsonWriterDecorator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/selector/ServerAddressSelector.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/inject/EmptyProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/DBRefCodecProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionCheckedInEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/internal/connection/InternalConnectionFactory.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/changestream/ChangeStreamDocument.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/selector/ReadPreferenceWithFallbackServerSelector.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/SubjectProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/FindAndModifyHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/SingleServerCluster.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/MultiLineString.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CountOperation.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/GeometryCollectionCodec.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionPoolListenerAdapter.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/MustCompoundSearchOperator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/bulk/WriteRequest.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ClusterClockAdvancingSessionContext.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/retry/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionPoolOpenedEvent.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/selector/ReadPreferenceServerSelector.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AsyncWriteOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/NamedCoordinateReferenceSystemCodec.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/DateRangeSearchOperator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/WildcardSearchPath.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ServerHeartbeatFailedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/internal/connection/AsynchronousChannelStream.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/ReturnDocument.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/BsonDocumentWrapperHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/ListDatabasesOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/ShouldCompoundSearchOperator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/DBObjectFactory.java

*
/opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/fill/ValueFillOutputField.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/authentication/AzureCredentialHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/event/ClusterListenerMulticaster.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/CursorType.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/MessageHeader.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DefaultDnsSrvRecordMonitor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/function/AsyncCallbackBiFunction.java

*
/opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/event/ServerMonitorListenerMulticaster.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/GaussSearchScoreExpression.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/NumberNearSearchOperator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/InternalConnectionInitializationDescription.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/NativeAuthenticator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/client/model/Util.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/AbstractByteBufBsonDocument.java

*
/opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/session/ClientSession.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoTimeoutException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ClusterDescriptionChangedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionClosedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/OpCode.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoCommandException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/DeleteManyModel.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/BaseFindAndModifyOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/MultiPolygon.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/MapReduceAsyncBatchCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/ChangeStreamOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionCreatedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ServerOpeningEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/result/InsertOneResult.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/selector/PrimaryServerSelector.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/Operations.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/netty/NettyStream.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoSocketClosedException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Field.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/client/model/CountStrategy.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ServerListenerAdapter.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/CommandProtocol.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/SingleResultCallback.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/netty/NettyStreamFactoryFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ConnectionDescription.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/internal/connection/Authenticator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/CompositeByteBuf.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/AggregateResponseBatchCursor.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/NamedCoordinateReferenceSystem.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/Jep395RecordCodecProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/ChangeStreamBatchCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/PathSearchScoreExpression.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/AuthenticationMechanism.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/DropIndexOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/IndexModel.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/StringSearchFacet.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/client/model/AbstractConstructibleBson.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/logging/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Indexes.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoQueryException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/client/model/FindOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/function/AsyncCallbackSupplier.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/event/CommandListenerMulticaster.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/SearchCollector.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/ExplainableReadOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ReadConcernLevel.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoWriteConcernException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/validator/MappedFieldNameValidator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ConnectionCheckOutStartedEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/validator/ReplacingDocumentFieldNameValidator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ConnectionPoolSettings.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/ClusterBinding.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/logging/StructuredLogMessage.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/changestream/UpdateDescription.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/bulk/UpdateRequest.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/ListCollectionsOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DefaultClusterFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/TopologyVersion.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Windows.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/DnsSrvRecordMonitorFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/Function.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/TlsChannelStreamFactoryFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/FindOneAndUpdateOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/MongoTimeUnit.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/diagnostics/logging/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/FindAndReplaceOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/client/vault/EncryptOptionsHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/function/AsyncCallbackLoop.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoCompressor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/QueryHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/internal/client/model/package-info.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoSecurityException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/BucketOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/FindOneAndDeleteOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/RelevanceSearchScoreExpression.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/TransactionOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/ReadOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/package-info.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/KerberosSubjectProvider.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/vault/RewrapManyDataKeyOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/WriteConcern.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ConnectionGenerationSupplier.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/diagnostics/logging/SLF4JLogger.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/CreateIndexesOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/LoadBalancedServer.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/NumberRangeSearchOperator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/SaslAuthenticator.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/CommandEventSender.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/dns/DnsResolver.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/InsertOneOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/SocketStreamFactory.java

*

/opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactoryFactory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/CoordinateReferenceSystemType.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/changestream/OperationType.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/Branches.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/SslSettings.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/BulkWriteOptions.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/DropIndexOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/NumberSearchFacet.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/UnixServerAddress.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/IndexOptionDefaults.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Variable.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/EstimatedDocumentCountOptions.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/async/function/LoopState.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/MapReduceWithInlineResultsOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/connection/ServerSettings.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/authentication/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/DistinctOperation.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/ErrorCategory.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/changestream/OperationTypeCodec.java

*

 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/event/ServerHeartbeatSucceededEvent.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-

jar/com/mongodb/internal/binding/AbstractReferenceCounted.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/bulk/IndexRequest.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/FieldTrackingBsonWriter.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/LoadBalancedCluster.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Aggregates.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/event/ConnectionPoolListenerMulticaster.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/DBObjectCodec.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/result/UpdateResult.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/binding/ClusterAwareReadWriteBinding.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/CountOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/densify/DensifyConstructibleBson.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/WriteError.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/Updates.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/TextSearchOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/fill/FillOutputField.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/GraphLookupOptions.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/geojson/codecs/package-info.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/capi/MongoCryptHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/mql/MqlDate.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/IndexHelper.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/package-info.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoClientSettings.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodec.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/operation/BatchCursor.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/Block.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/selector/WritableServerSelector.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/PowerOfTwoBufferPool.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/client/model/search/CompoundSearchOperator.java

*
 /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/MongoWriteException.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ZlibCompressor.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2005 Brian Goetz and Tim Peierls
* Released under the Creative Commons Attribution License
*   (http://creativecommons.org/licenses/by/2.5)
* Official home: http://www.jcip.net
*
* Any republication or derived work distributed in source code form
* must include this copyright and license notice.
*/

Found in path(s):
* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/annotations/ThreadSafe.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/annotations/NotThreadSafe.java

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/annotations/Immutable.java

No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*

* Original Work: MIT License, Copyright (c) [2015-2018] all contributors

* https://github.com/marianobarrios/tls-channel

*/

Found in path(s):

* /opt/cola/permits/1717955669_1686538496.5817785/0/mongodb-driver-core-4-9-0-sources-jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java

1.321 mongodb-driver-sync 4.9.0

1.321.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*

* Copyright 2008-present MongoDB, Inc.

*

* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.

* You may obtain a copy of the License at

*

*   http://www.apache.org/licenses/LICENSE-2.0

*

* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

* See the License for the specific language governing permissions and

* limitations under the License.

*/

Found in path(s):

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/MongoClient.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/MongoChangeStreamCursorImpl.java

*

 /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/ListIndexesIterable.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/ClientEncryptionImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/gridfs/GridFSBucketImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-

jar/com/mongodb/client/internal/ListIndexesIterableImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/MongoClientImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/CollectionInfoRetriever.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/ListCollectionsIterable.java

*

 /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/gridfs/GridFSBuckets.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/gridfs/GridFSFindIterable.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/gridfs/GridFSUploadStream.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/ChangeStreamIterableImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/FindIterable.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/CryptBinding.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/AggregateIterable.java

*

 /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/MongoIterable.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/DistinctIterable.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/ListCollectionsIterableImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/gridfs/GridFSBucket.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/MongoClients.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/MongoChangeStreamCursor.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/ClientSessionBinding.java

*

 /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/DistinctIterableImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/KeyRetriever.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/MongoClientFactory.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/MongoMappingCursor.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/vault/package-info.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/MongoDatabase.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/MongoCursor.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java

*

 /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/gridfs/package-info.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/SynchronousContextProvider.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/package-info.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/MapReduceIterable.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/ChangeStreamIterable.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/FindIterableImpl.java

*

 /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/MongoCollectionImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/CommandMarker.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/MongoIterableImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/vault/ClientEncryption.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/vault/ClientEncryptions.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/KeyManagementService.java

*

 /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/MongoClientDelegate.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/ListDatabasesIterable.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/MongoDatabaseImpl.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/Crypt.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-jar/com/mongodb/client/internal/OperationExecutor.java

* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-

jar/com/mongodb/client/internal/MongoBatchCursorAdapter.java
* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/internal/AggregateIterableImpl.java
*
 /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/internal/Crypts.java
* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/internal/MappingIterable.java
* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/internal/MapReduceIterableImpl.java
* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/internal/CryptConnection.java
* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/MongoCollection.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*   http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/TransactionBody.java
* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/internal/ClientSessionClock.java
* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/internal/package-info.java
*
 /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/internal/ClientSessionImpl.java
* /opt/cola/permits/1717955655_1686538494.7201016/0/mongodb-driver-sync-4-9-0-sources-
jar/com/mongodb/client/ClientSession.java

1.322 spring-cloud-starter 3.1.6

1.322.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1717971278_1686543223.8143082/0/spring-cloud-starter-3-1-6-1-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter/pom.xml

1.323 spring-cloud-starter-openfeign 3.1.6

1.323.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1717971276_1686543220.288258/0/spring-cloud-starter-openfeign-3-1-6-1-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-openfeign/pom.xml

1.324 libx11 1.8.4-r4

1.324.1 Available under license :

The following is the 'standard copyright' agreed upon by most contributors,
and is currently the canonical license preferred by the X.Org Foundation.
This is a slight variant of the common MIT license form published by the
Open Source Initiative at http://www.opensource.org/licenses/mit-license.php

Copyright holders of new code should use this license statement where
possible, and insert their name to this list. Please sort by surname
for people, and by the full name for other entities (e.g. Juliusz
Chroboczek sorts before Intel Corporation sorts before Daniel Stone).

See each individual source file or directory for the license that applies
to that file.

Copyright (C) 2003-2006,2008 Jamey Sharp, Josh Triplett
Copyright 2009 Red Hat, Inc.
Copyright (c) 1990-1992, 1999, 2000, 2004, 2009, 2010, 2015, 2017, Oracle and/or its affiliates.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to
 deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next
paragraph) shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

The following licenses
 are 'legacy' - usually MIT/X11 licenses with the name
of the copyright holder(s) in the license statement:

Copyright 1984-1994, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS

IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from The Open Group.

X Window System is a trademark of The Open Group.

Copyright 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1994, 1996 X Consortium
Copyright 2000 The XFree86 Project, Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial
 portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from the X Consortium.

Copyright 1985, 1986, 1987, 1988, 1989, 1990, 1991 by
Digital Equipment Corporation

Portions Copyright 1990, 1991 by Tektronix, Inc.

Permission to use, copy, modify and distribute this documentation for
any purpose and without fee is hereby granted, provided that the above
copyright notice appears
 in all copies and that both that copyright notice
and this permission notice appear in all copies, and that the names of

Digital and Tektronix not be used in in advertising or publicity pertaining
to this documentation without specific, written prior permission.
Digital and Tektronix makes no representations about the suitability
of this documentation for any purpose.
It is provided ``as is'' without express or implied warranty.

----

all copies of this software and any modification thereof and in
  supporting documentation;
2. Any color-handling application which displays TekHVC color
  cooordinates identifies these as TekHVC color coordinates in any
  interface that displays these coordinates and in any associated
  documentation;
3. The term "TekHVC" is always used, and is only used, in association
  with the mathematical derivations of the TekHVC Color Space,
  including those provided in this file and any
 equivalent pathways and
  mathematical derivations, regardless of digital (e.g., floating point
  or integer) representation.

Tektronix makes no representation about the suitability of this software
for any purpose. It is provided "as is" and with all faults.

TEKTRONIX DISCLAIMS ALL WARRANTIES APPLICABLE TO THIS SOFTWARE,
INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE. IN NO EVENT SHALL TEKTRONIX BE LIABLE FOR ANY
SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA, OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE, OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR THE PERFORMANCE OF THIS SOFTWARE.

(c) Copyright 1995 FUJITSU LIMITED
This is source code modified by FUJITSU LIMITED under the Joint
Development Agreement for the CDE/Motif PST.

Copyright 1992 by Oki Technosystems
 Laboratory, Inc.
Copyright 1992 by Fuji Xerox Co., Ltd.

Permission to use, copy, modify, distribute, and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear
in supporting documentation, and that the name of Oki Technosystems
Laboratory and Fuji Xerox not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
Oki Technosystems Laboratory and Fuji Xerox make no representations
about the suitability of this software for any purpose. It is provided
"as is" without express or implied warranty.

OKI TECHNOSYSTEMS LABORATORY AND FUJI XEROX DISCLAIM ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL OKI TECHNOSYSTEMS
LABORATORY AND FUJI XEROX BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL
 DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE
OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1990, 1991, 1992, 1993, 1994 by FUJITSU LIMITED

Permission to use, copy, modify, distribute, and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear
in supporting documentation, and that the name of FUJITSU LIMITED
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
FUJITSU LIMITED makes no representations about the suitability of
this software for any purpose.
It is provided "as is" without express or implied warranty.

FUJITSU LIMITED DISCLAIM ALL WARRANTIES
 WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL FUJITSU LIMITED BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 1990, 1991 by OMRON Corporation

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name OMRON not be used in
advertising or publicity pertaining to distribution of the software without
specific, written prior permission. OMRON makes no representations
about the suitability
 of this software for any purpose. It is provided
"as is" without express or implied warranty.

OMRON DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL OMRON BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTUOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 1985, 1986, 1987, 1988, 1989, 1990, 1991 by
Digital Equipment Corporation

Portions Copyright 1990, 1991 by Tektronix, Inc

Rewritten for X.org by Chris Lee <clee@freedesktop.org>

Permission to use, copy, modify, distribute, and sell this documentation
for any purpose and without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
Chris Lee makes
 no representations about the suitability for any purpose
of the information in this document. It is provided \`\`as-is" without
express or implied warranty.

Copyright 1993 by Digital Equipment Corporation, Maynard, Massachusetts,
Copyright 1994 by FUJITSU LIMITED
Copyright 1994 by Sony Corporation

                All Rights Reserved

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the names of Digital, FUJITSU
LIMITED and Sony Corporation not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

DIGITAL, FUJITSU LIMITED AND SONY CORPORATION DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE, INCLUDING ALL
 IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL, FUJITSU LIMITED
AND SONY CORPORATION BE LIABLE FOR ANY SPECIAL, INDIRECT OR

CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1991 by the Open Software Foundation

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of Open Software Foundation
not be used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission. Open Software
Foundation makes no representations
 about the suitability of this
software for any purpose. It is provided "as is" without express or
implied warranty.

OPEN SOFTWARE FOUNDATION DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL OPEN SOFTWARE FOUNDATIONN BE
LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1990, 1991, 1992,1993, 1994 by FUJITSU LIMITED
Copyright 1993, 1994   by Sony Corporation

Permission to use, copy, modify, distribute, and sell this software and
its documentation for any purpose is hereby granted without fee, provided
that the above copyright notice appear in all copies and that both that
copyright notice and
 this permission notice appear in supporting
documentation, and that the name of FUJITSU LIMITED and Sony Corporation
not be used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission. FUJITSU LIMITED and
Sony Corporation makes no representations about the suitability of this
software for any purpose. It is provided "as is" without express or
implied warranty.

FUJITSU LIMITED AND SONY CORPORATION DISCLAIMS ALL WARRANTIES WITH REGARD

any purpose. It is provided "as is" without express or implied
warranty.

FUJITSU LIMITED AND DIGITAL EQUIPMENT
 CORPORATION DISCLAIM ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL
FUJITSU LIMITED AND DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR
ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF
THIS SOFTWARE.

Copyright 1992, 1993 by FUJITSU LIMITED
Copyright 1993 by Fujitsu Open Systems Solutions, Inc.
Copyright 1994 by Sony Corporation

Permission to use, copy, modify, distribute and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear
in supporting documentation, and that the name of FUJITSU LIMITED,
Fujitsu
 Open Systems Solutions, Inc. and Sony Corporation not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.
FUJITSU LIMITED, Fujitsu Open Systems Solutions, Inc. and
Sony Corporation make no representations about the suitability of
this software for any purpose. It is provided "as is" without
express or implied warranty.

FUJITSU LIMITED, FUJITSU OPEN SYSTEMS SOLUTIONS, INC. AND SONY
CORPORATION DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS,
IN NO EVENT SHALL FUJITSU OPEN SYSTEMS SOLUTIONS, INC., FUJITSU LIMITED
AND SONY CORPORATION BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE
OR PERFORMANCE OF THIS SOFTWARE.

Copyright

Copyright 1991 by the Open Software Foundation
Copyright 1993, 1994 by the Sony Corporation

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear
 in supporting
documentation, and that the names of Open Software Foundation and
Sony Corporation not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.
Open Software Foundation and Sony Corporation make no
representations about the suitability of this software for any purpose.
It is provided "as is" without express or implied warranty.

OPEN SOFTWARE FOUNDATION AND SONY CORPORATION DISCLAIM ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL OPEN
SOFTWARE FOUNDATIONN OR SONY CORPORATION BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 1992, 1993 by FUJITSU
 LIMITED
Copyright 1993 by Fujitsu Open Systems Solutions, Inc.

Permission to use, copy, modify, distribute and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear
in supporting documentation, and that the name of FUJITSU LIMITED and
Fujitsu Open Systems Solutions, Inc. not be used in advertising or
publicity pertaining to distribution of the software without specific,
written prior permission.
FUJITSU LIMITED and Fujitsu Open Systems Solutions, Inc. makes no
representations about the suitability of this software for any purpose.
It is provided "as is" without express or implied warranty.

FUJITSU LIMITED AND FUJITSU OPEN SYSTEMS SOLUTIONS, INC. DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL FUJITSU OPEN SYSTEMS
SOLUTIONS, INC. AND

FUJITSU LIMITED BE LIABLE FOR ANY SPECIAL, INDIRECT
OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THIS SOFTWARE.

Copyright 1993, 1994 by Sony Corporation

Permission to use, copy, modify, distribute, and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear
in supporting documentation, and that the name of Sony Corporation
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
Sony Corporation makes no representations about the suitability of
this software for any purpose. It is provided "as is" without
express or implied warranty.

SONY
 CORPORATION DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL SONY CORPORATION BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 1986, 1998 The Open Group
Copyright (c) 2000 The XFree86 Project, Inc.

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of
 the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

X CONSORTIUM OR THE XFREE86 PROJECT BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Except as contained in this notice, the name of the X Consortium or of the
XFree86 Project shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization from the X Consortium and the XFree86 Project.

Copyright 1990, 1991 by OMRON Corporation, NTT Software Corporation,
            and Nippon Telegraph and Telephone Corporation
Copyright 1991 by the Open Software Foundation
Copyright
 1993 by the FUJITSU LIMITED

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the names of OMRON, NTT Software, NTT, and
Open Software Foundation not be used in advertising or publicity
pertaining to distribution of the software without specific,
written prior permission. OMRON, NTT Software, NTT, and Open Software
Foundation make no representations about the suitability of this
software for any purpose. It is provided "as is" without express or
implied warranty.

OMRON, NTT SOFTWARE, NTT, AND OPEN SOFTWARE FOUNDATION
DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING
ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT
SHALL OMRON, NTT SOFTWARE, NTT, OR OPEN SOFTWARE FOUNDATION BE
LIABLE FOR ANY SPECIAL,
 INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 1988 by Wyse Technology, Inc., San Jose, Ca,
Copyright 1987 by Digital Equipment Corporation, Maynard, Massachusetts,

            All Rights Reserved

Permission to use, copy, modify, and distribute this software and its

documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name Digital not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

DIGITAL AND WYSE DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING
 ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL DIGITAL OR WYSE BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 1991, 1992 by Fuji Xerox Co., Ltd.
Copyright 1992, 1993, 1994 by FUJITSU LIMITED

Permission to use, copy, modify, distribute, and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and
that both that copyright notice and this permission notice appear
in supporting documentation, and that the name of Fuji Xerox,
FUJITSU LIMITED not be used in advertising or publicity pertaining
to distribution of the software without specific, written prior
permission. Fuji Xerox,
 FUJITSU LIMITED make no representations
about the suitability of this software for any purpose.
It is provided "as is" without express or implied warranty.

FUJI XEROX, FUJITSU LIMITED DISCLAIM ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL FUJI XEROX,
FUJITSU LIMITED BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA
OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright 2006 Josh Triplett

Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense,

 and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be included

in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS

OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR

OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,

ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR

OTHER DEALINGS IN THE SOFTWARE.

(c) Copyright 1996 by Sebastien Marineau and Holger Veit

  <marineau@genie.uottawa.ca>

            <Holger.Veit@gmd.de>

Permission is hereby granted, free of charge, to any person obtaining a

copy of this software and associated

 documentation files (the "Software"),

to deal in the Software without restriction, including without limitation

the rights to use, copy, modify, merge, publish, distribute, sublicense,

and/or sell copies of the Software, and to permit persons to whom the

Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL

HOLGER VEIT BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,

WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF

OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE

SOFTWARE.

Except as contained in this notice, the name of Sebastien Marineau or Holger Veit

shall not be used in

 advertising or otherwise to promote the sale, use or other

dealings in this Software without prior written authorization from Holger Veit or

Sebastien Marineau.

Bruno Haible DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN
NO EVENT SHALL Bruno Haible BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE
OR PERFORMANCE OF THIS SOFTWARE.

Copyright
  2003 Keith Packard

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of Keith Packard not be used in
advertising or publicity pertaining to distribution of the software without
specific, written prior permission. Keith Packard makes no
representations about the suitability of this software for any purpose. It
is provided "as is" without express or implied warranty.

KEITH PACKARD DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL KEITH PACKARD BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS
 ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2007-2009, Troy D. Hanson
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER

OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
 AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 1992, 1993 by TOSHIBA Corp.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the name of TOSHIBA not be used in advertising
or publicity pertaining to distribution of the software without specific,
written prior permission. TOSHIBA make no representations about the
suitability of this software for any purpose. It is provided "as is"
without express or implied warranty.

TOSHIBA DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING
ALL IMPLIED WARRANTIES
 OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL
TOSHIBA BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR
ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Copyright IBM Corporation 1993

All Rights Reserved

License to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of IBM not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

IBM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING

ALL IMPLIED WARRANTIES OF MERCHANTABILITY,
 FITNESS, AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS, IN NO EVENT SHALL
IBM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR
ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Copyright 1990, 1991 by OMRON Corporation, NTT Software Corporation,
            and Nippon Telegraph and Telephone Corporation

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation, and that the names of OMRON, NTT Software, and NTT
not be used in advertising or publicity pertaining to distribution of the
software without specific, written prior
 permission. OMRON, NTT Software,
and NTT make no representations about the suitability of this
software for any purpose. It is provided "as is" without express or
implied warranty.

OMRON, NTT SOFTWARE, AND NTT, DISCLAIM ALL WARRANTIES WITH REGARD
TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS, IN NO EVENT SHALL OMRON, NTT SOFTWARE, OR NTT, BE
LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND
 THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN

ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This notice applies to the files in this directory. They are taken from
the libiconv-1.1 package, which is covered by the LGPL license. The files
in this directory have been placed under the following copyright, with
permission from the Free Software Foundation.

Copyright (c) 1999-2000 Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE
 WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
FREE SOFTWARE FOUNDATION BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR
IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the Free Software Foundation
shall not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization from the
Free Software Foundation.

Notes:

1. This copyright applies only to the files in this directory, and not to
the remaining files in libiconv.

2. The Free Software Foundation does not encourage the use of the above
license for newly written software.

1.325 libjpeg-turbo 2.1.5.1-r3

1.325.1 Available under license :

* are granted under this license.
*
* Copyright (c) 2002-2014, Universite catholique de Louvain (UCL), Belgium
* Copyright (c) 2002-2014, Professor Benoit Macq
* Copyright (c) 2003-2014, Antonin Descampe
* Copyright (c) 2003-2009, Francois-Olivier Devaux
* Copyright (c) 2005, Herve Drolon, FreeImage Team
* Copyright (c) 2002-2003, Yannick Verschueren
* Copyright (c) 2001-2003, David Janssens
* Copyright (c) 2011-2012, Centre National d'Etudes Spatiales (CNES), France
* Copyright (c) 2012, CS Systemes d'Information, France
*
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain
 the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS `AS IS'
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
*
 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

This copy of the libpng notices is provided for your convenience. In case of
any discrepancy between this copy and the notices in the file png.h that is
included in the libpng distribution, the latter shall prevail.

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE:

If you modify libpng you may insert additional notices immediately following
this sentence.

This code is released under the libpng license.

libpng versions 1.0.7, July 1, 2000 through 1.6.25, September 1, 2016 are
Copyright (c) 2000-2002, 2004, 2006-2016 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

  Simon-Pierre Cadieux
  Eric S. Raymond
  Mans Rullgard
  Cosmin Truta
  Gilles Vollant
  James Yu

and with the following additions to the disclaimer:

  There is no warranty against interference with your enjoyment of the
  library or against infringement. There
 is no warranty that our
  efforts or the library will fulfill any of your particular purposes
  or needs. This library is provided with all faults, and the entire
  risk of satisfactory quality, performance, accuracy, and effort is with
  the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the list
of Contributing Authors:

  Tom Lane
  Glenn Randers-Pehrson
  Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license
 as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

  John Bowler
  Kevin Bracey
  Sam Bushell

Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors
and Group 42, Inc. disclaim all warranties, expressed or implied,
including, without limitation, the warranties of merchantability and of
fitness for any purpose. The Contributing Authors and Group 42, Inc.
assume no liability for direct, indirect, incidental, special, exemplary,
or consequential damages,
 which may result from the use of the PNG
Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

 1. The origin of this source code must not be misrepresented.

 2. Altered versions must be plainly marked as such and must not
    be misrepresented as being the original source.

 3. This Copyright notice may not be removed or altered from any
    source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without
fee, and encourage the use of this source code as a component to
supporting the PNG file format in commercial products. If you use this
source code in a product, acknowledgment is not required but would be
appreciated.

END OF COPYRIGHT NOTICE, DISCLAIMER, and LICENSE.

TRADEMARK:

The name "libpng" has not been registered by the Copyright
 owner
as a trademark in any jurisdiction. However, because libpng has
been distributed and maintained world-wide, continually since 1995,
the Copyright owner claims "common-law trademark protection" in any
jurisdiction where common-law trademark is recognized.

OSI CERTIFICATION:

Libpng is OSI Certified Open Source Software. OSI Certified Open Source is
a certification mark of the Open Source Initiative. OSI has not addressed
the additional disclaimers inserted at version 1.0.7.

EXPORT CONTROL:

The Copyright owner believes that the Export Control Classification
Number (ECCN) for libpng is EAR99, which means not subject to export
controls or International Traffic in Arms Regulations (ITAR) because
it is open source, publicly available software, that does not contain
any encryption software. See the EAR, paragraphs 734.3(b)(3) and
734.7(b).

Glenn Randers-Pehrson
glennrp at users.sourceforge.net
September 1, 2016
MIT License

Copyright (c) 2017 by Jim Pattee <jimp03@email.com>.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT

OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.326 alsa 1.2.9-r1

1.326.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses
are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission

to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

   GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program
 or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute
 verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish,
that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can
 be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under

the scope of this License.

  3. You may copy and distribute the Program
 (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution and only if you
  received the program
 in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled
 to copy the source along with the object code.

  4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based
 on it.

 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit
 royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing

to distribute
 software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies
 a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

    NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
 APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,

REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS),
  EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

    END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version
  2.1 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands
 `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
    GNU LESSER GENERAL PUBLIC LICENSE
        Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
  51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some

specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we
 suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the
 recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software patents pose a constant threat to the existence
 of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination
 fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we
 use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The

former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

  GNU LESSER GENERAL PUBLIC LICENSE
  TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without
 limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish
 on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the terms of this License.

  d) If a facility in the modified
 Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves,
 then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or

collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License
 to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be
 distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered

by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any
executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable
source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the
user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with
 the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work

based on the Library, uncombined with any other library
facilities. This must be distributed
under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying
 or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute
 so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many
 people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public
 License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free

status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line
and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public

License along with this library; if not, write to the Free Software

Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You

 should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the

 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990

 Ty Coon, President of Vice

That's all there is to it!

1.327 commons-io 2.13.0

1.327.1 Available under license :

Apache Commons IO

Copyright 2002-2023 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (https://www.apache.org/).

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

1.328 janino 3.1.10

1.328.1 Available under license :

```
  ========================================================================
==  NOTICE file corresponding to the section 4 d of            ==
==  the Apache License, Version 2.0,                           ==
==  in this case for the Apache Ant distribution.              ==
  ========================================================================


Apache Ant
Copyright 1999-2008 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

This product includes also software developed by :
  - the W3C consortium (http://www.w3c.org) ,
  - the SAX project (http://www.saxproject.org)

The <sync> task is based on code Copyright (c) 2002, Landmark
Graphics Corp that has been kindly donated to the Apache Software
Foundation.

Portions of this software were originally based on the following:
  - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
  - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
  - voluntary contributions made by Paul Eng on behalf of the
    Apache Software Foundation that were originally developed at iClick, Inc.,
    software copyright (c) 1999.
/*
*                        Apache License
*                   Version 2.0, January 2004
*               http://www.apache.org/licenses/
*
*  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
*
*  1. Definitions.
*
*     "License" shall mean the terms and conditions for use, reproduction,
```

*   and distribution as defined by Sections 1 through 9 of this document.
 *
 *   "Licensor" shall mean the copyright owner or entity authorized by
 *   the copyright owner that is granting the License.
 *
 *   "Legal Entity" shall mean the union of the acting entity and all
 *   other entities that control, are controlled by, or are under common
 *   control with that entity. For the purposes of this definition,
 *   "control" means (i) the power, direct or indirect, to cause the
 *   direction or management of such entity, whether by contract or
 *   otherwise, or (ii) ownership of fifty percent (50%) or more of the
 *
  outstanding shares, or (iii) beneficial ownership of such entity.
 *
 *   "You" (or "Your") shall mean an individual or Legal Entity
 *   exercising permissions granted by this License.
 *
 *   "Source" form shall mean the preferred form for making modifications,
 *   including but not limited to software source code, documentation
 *   source, and configuration files.
 *
 *   "Object" form shall mean any form resulting from mechanical
 *   transformation or translation of a Source form, including but
 *   not limited to compiled object code, generated documentation,
 *   and conversions to other media types.
 *
 *   "Work" shall mean the work of authorship, whether in Source or
 *   Object form, made available under the License, as indicated by a
 *   copyright notice that is included in or attached to the work
 *   (an example is provided in the Appendix below).
 *
 *   "Derivative Works" shall mean any work, whether in Source or Object
 *
   form, that is based on (or derived from) the Work and for which the
 *   editorial revisions, annotations, elaborations, or other modifications
 *   represent, as a whole, an original work of authorship. For the purposes
 *   of this License, Derivative Works shall not include works that remain
 *   separable from, or merely link (or bind by name) to the interfaces of,
 *   the Work and Derivative Works thereof.
 *
 *   "Contribution" shall mean any work of authorship, including
 *   the original version of the Work and any modifications or additions
 *   to that Work or Derivative Works thereof, that is intentionally
 *   submitted to Licensor for inclusion in the Work by the copyright owner
 *   or by an individual or Legal Entity authorized to submit on behalf of
 *   the copyright owner. For the purposes of this definition, "submitted"
 *   means any form of electronic, verbal, or written communication sent
 *   to the Licensor or its representatives,

including but not limited to
* communication on electronic mailing lists, source code control systems,
* and issue tracking systems that are managed by, or on behalf of, the
* Licensor for the purpose of discussing and improving the Work, but
* excluding communication that is conspicuously marked or otherwise
* designated in writing by the copyright owner as "Not a Contribution."
*
* "Contributor" shall mean Licensor and any individual or Legal Entity
* on behalf of whom a Contribution has been received by Licensor and
* subsequently incorporated within the Work.
*
* 2. Grant of Copyright License. Subject to the terms and conditions of
* this License, each Contributor hereby grants to You a perpetual,
* worldwide, non-exclusive, no-charge, royalty-free, irrevocable
* copyright license to reproduce, prepare Derivative Works of,
* publicly display, publicly perform, sublicense, and distribute the
*

Work and such Derivative Works in Source or Object form.
*
* 3. Grant of Patent License. Subject to the terms and conditions of
* this License, each Contributor hereby grants to You a perpetual,
* worldwide, non-exclusive, no-charge, royalty-free, irrevocable
* (except as stated in this section) patent license to make, have made,
* use, offer to sell, sell, import, and otherwise transfer the Work,
* where such license applies only to those patent claims licensable
* by such Contributor that are necessarily infringed by their
* Contribution(s) alone or by combination of their Contribution(s)
* with the Work to which such Contribution(s) was submitted. If You
* institute patent litigation against any entity (including a
* cross-claim or counterclaim in a lawsuit) alleging that the Work
* or a Contribution incorporated within the Work constitutes direct
* or contributory patent infringement, then any patent licenses
* granted to You under this License for that Work shall terminate
* as of the date such litigation is filed.
*
* 4. Redistribution. You may reproduce and distribute copies of the
* Work or Derivative Works thereof in any medium, with or without
* modifications, and in Source or Object form, provided that You
* meet the following conditions:
*
* (a) You must give any other recipients of the Work or
* Derivative Works a copy of this License; and
*
* (b) You must cause any modified files to carry prominent notices
* stating that You changed the files; and
*
* (c) You must retain, in the Source form of any Derivative Works
* that You distribute, all copyright, patent, trademark, and

```
*       attribution notices from the Source form of the Work,
*       excluding those notices that do not pertain to any part of
*       the Derivative Works; and
*
*     (d) If the Work includes a "NOTICE"
text file as part of its
*       distribution, then any Derivative Works that You distribute must
*       include a readable copy of the attribution notices contained
*       within such NOTICE file, excluding those notices that do not
*       pertain to any part of the Derivative Works, in at least one
*       of the following places: within a NOTICE text file distributed
*       as part of the Derivative Works; within the Source form or
*       documentation, if provided along with the Derivative Works; or,
*       within a display generated by the Derivative Works, if and
*       wherever such third-party notices normally appear. The contents
*       of the NOTICE file are for informational purposes only and
*       do not modify the License. You may add Your own attribution
*       notices within Derivative Works that You distribute, alongside
*       or as an addendum to the NOTICE text from the Work, provided
*       that
such additional attribution notices cannot be construed
*       as modifying the License.
*
*     You may add Your own copyright statement to Your modifications and
*     may provide additional or different license terms and conditions
*     for use, reproduction, or distribution of Your modifications, or
*     for any such Derivative Works as a whole, provided Your use,
*     reproduction, and distribution of the Work otherwise complies with
*     the conditions stated in this License.
*
*   5. Submission of Contributions. Unless You explicitly state otherwise,
*     any Contribution intentionally submitted for inclusion in the Work
*     by You to the Licensor shall be under the terms and conditions of
*     this License, without any additional terms or conditions.
*     Notwithstanding the above, nothing herein shall supersede or modify
*     the terms of any separate license agreement you may have executed
*     with Licensor regarding such Contributions.
*
*   6. Trademarks. This License does not grant permission to use the trade
*     names, trademarks, service marks, or product names of the Licensor,
*     except as required for reasonable and customary use in describing the
*     origin of the Work and reproducing the content of the NOTICE file.
*
*   7. Disclaimer of Warranty. Unless required by applicable law or
*     agreed to in writing, Licensor provides the Work (and each
*     Contributor provides its Contributions) on an "AS IS" BASIS,
*     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
*     implied, including, without limitation, any warranties or conditions
```

```
 *    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
 *    PARTICULAR PURPOSE. You are solely responsible for determining the
 *    appropriateness of using or redistributing the Work and assume any
 *    risks associated with Your exercise of permissions under this License.
 *
 *  8. Limitation of Liability.
 In no event and under no legal theory,
 *    whether in tort (including negligence), contract, or otherwise,
 *    unless required by applicable law (such as deliberate and grossly
 *    negligent acts) or agreed to in writing, shall any Contributor be
 *    liable to You for damages, including any direct, indirect, special,
 *    incidental, or consequential damages of any character arising as a
 *    result of this License or out of the use or inability to use the
 *    Work (including but not limited to damages for loss of goodwill,
 *    work stoppage, computer failure or malfunction, or any and all
 *    other commercial damages or losses), even if such Contributor
 *    has been advised of the possibility of such damages.
 *
 *  9. Accepting Warranty or Additional Liability. While redistributing
 *    the Work or Derivative Works thereof, You may choose to offer,
 *    and charge a fee for, acceptance of support, warranty, indemnity,
 *    or other
 liability obligations and/or rights consistent with this
 *    License. However, in accepting such obligations, You may act only
 *    on Your own behalf and on Your sole responsibility, not on behalf
 *    of any other Contributor, and only if You agree to indemnify,
 *    defend, and hold each Contributor harmless for any liability
 *    incurred by, or claims asserted against, such Contributor by reason
 *    of your accepting any such warranty or additional liability.
 *
 *  END OF TERMS AND CONDITIONS
 *
 *  APPENDIX: How to apply the Apache License to your work.
 *
 *    To apply the Apache License to your work, attach the following
 *    boilerplate notice, with the fields enclosed by brackets "[]"
 *    replaced with your own identifying information. (Don't include
 *    the brackets!)  The text should be enclosed in the appropriate
 *    comment syntax for the file format. We also recommend that a
 *    file or class name and description of purpose
 be included on the
 *    same "printed page" as the copyright notice for easier
 *    identification within third-party archives.
 *
 *  Copyright [yyyy] [name of copyright owner]
 *
 *  Licensed under the Apache License, Version 2.0 (the "License");
 *  you may not use this file except in compliance with the License.
```

```
 *   You may obtain a copy of the License at
 *
 *      http://www.apache.org/licenses/LICENSE-2.0
 *
 *   Unless required by applicable law or agreed to in writing, software
 *   distributed under the License is distributed on an "AS IS" BASIS,
 *   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 *   See the License for the specific language governing permissions and
 *   limitations under the License.
 */
```

W3C SOFTWARE NOTICE AND LICENSE
http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under
 the following
license. By obtaining, using and/or copying this work, you (the licensee) agree
that you have read, understood, and will comply with the following terms and
conditions.

Permission to copy, modify, and distribute this software and its documentation,
with or without modification, for any purpose and without fee or royalty is
hereby granted, provided that you include the following on ALL copies of the
software and documentation or portions thereof, including modifications:

 1. The full text of this NOTICE in a location viewable to users of the
    redistributed or derivative work.
 2. Any pre-existing intellectual property disclaimers, notices, or terms
    and conditions. If none exist, the W3C Software Short Notice should be
    included (hypertext is preferred, text is permitted) within the body
    of any redistributed or derivative code.
 3. Notice of any changes or modifications to the files, including the date
    changes were made. (We recommend you provide
 URIs to the location from
    which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE
NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED
TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT
THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY
PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or
publicity pertaining to the software without specific, written prior permission.

Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

_____

This formulation of W3C's notice and license became active on December 31 2002. This version
 removes the copyright ownership notice such that this license can
be used with materials other than those owned by the W3C, reflects that ERCIM
is now a host of the W3C, includes references to this specific dated version of
the license, and removes the ambiguous grant of "use". Otherwise, this version
is the same as the previous version and is written so as to preserve the Free
Software Foundation's assessment of GPL compatibility and OSI's certification
under the Open Source Definition. Please see our Copyright FAQ for common
questions about using materials from our site, including specific terms and
conditions for packages like libwww, Amaya, and Jigsaw. Other questions about
this notice can be directed to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>

This license came from: http://www.megginson.com/SAX/copying.html
 However please note future versions of SAX may be covered
 under http://saxproject.org/?selected=pd

SAX2 is Free!

I hereby abandon any property rights
 to SAX 2.0 (the Simple API for
XML), and release all of the SAX 2.0 source code, compiled code, and
documentation contained in this distribution into the Public Domain.
SAX comes with NO WARRANTY or guarantee of fitness for any
purpose.

David Megginson, david@megginson.com
2000-05-05
Janino - An embedded Java[TM] compiler

Copyright (c) 2001-2016, Arno Unkrig
Copyright (c) 2015-2016 TIBCO Software Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  1. Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above

copyright notice, this list of conditions and the following

disclaimer in the documentation and/or other materials

provided with the distribution.

3. Neither the name of JANINO nor the names of its contributors

may be used to endorse or promote products derived from this

software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED
 WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.329 json-utils 2.18.39

1.329.1 Available under license :

AWS SDK for Java 2.0

Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by

Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.

- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.

- Apache Commons Lang - https://github.com/apache/commons-lang

- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams

- Jackson-core - https://github.com/FasterXML/jackson-core

- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:

 Apache Commons Lang

 Copyright 2001-2020

The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

  for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

 5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

1.330 client-spi 2.18.39

1.330.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                          Apache License
                     Version 2.0, January 2004
                   http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership
   of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

      "Object" form shall mean any form resulting from mechanical
      transformation or translation of a Source form, including but
      not limited to compiled object code, generated documentation,
      and conversions to other media types.

      "Work" shall mean the work of authorship, whether in Source or
      Object form, made available under the License, as indicated by a

copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed

with the accompanying software if such terms are included in the directory containing the accompanying software.

Such other license terms will then apply in lieu of the terms of the software license above.

1.331 apache-client 2.18.39

1.331.1 Available under license :

AWS SDK for Java 2.0

Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by

Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                        Apache License
                    Version 2.0, January 2004
                    http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common
    control with that entity. For the purposes of this definition,
    "control" means (i) the power, direct or indirect, to cause the
    direction or management of such entity, whether by contract or
    otherwise, or (ii) ownership of fifty percent (50%) or more of the
    outstanding shares, or (iii) beneficial ownership
 of such entity.

    "You" (or "Your") shall mean an individual or Legal Entity
    exercising permissions granted by this License.

    "Source" form shall mean the preferred form for making modifications,
    including but not limited to software source code, documentation
    source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of

this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the

origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly

negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct,

indirect, special,

incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.332 aws-core 2.18.39

1.332.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by

Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                         Apache License
                   Version 2.0, January 2004
                 http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership
  of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
      this
License, each Contributor hereby grants to You a perpetual,
      worldwide, non-exclusive, no-charge, royalty-free, irrevocable
      (except as stated in this section) patent license to make, have made,
      use, offer to sell, sell, import, and otherwise transfer the Work,
      where such license applies only to those patent claims licensable
      by such Contributor that are necessarily infringed by their
      Contribution(s) alone or by combination of their Contribution(s)
      with the Work to which such Contribution(s) was submitted. If You
      institute patent litigation against any entity (including a
      cross-claim or counterclaim in a lawsuit) alleging that the Work
      or a Contribution incorporated within the Work constitutes direct
      or contributory patent infringement, then any patent licenses
      granted to You under this License for that Work shall terminate
      as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
      Work or Derivative Works thereof in any medium, with or without
      modifications, and in Source or Object form, provided that You
      meet the following conditions:

      (a) You must give any other recipients of the Work or
          Derivative Works a copy of this License; and

      (b) You must cause any modified files to carry prominent notices
          stating that You changed the files; and

      (c) You must retain, in the Source form of any Derivative Works
          that You distribute, all copyright, patent, trademark, and
          attribution notices from the Source form of the Work,
          excluding those notices that do not pertain to any part of
          the Derivative Works; and

      (d) If the Work includes a "NOTICE" text file as part of its
          distribution, then any Derivative Works that You distribute must
          include a readable copy of the attribution notices contained
          within such NOTICE file, excluding
those notices that do not
          pertain to any part of the Derivative Works, in at least one
          of the following places: within a NOTICE text file distributed
          as part of the Derivative Works; within the Source form or
          documentation, if provided along with the Derivative Works; or,
          within a display generated by the Derivative Works, if and
          wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.333 profiles 2.18.39

1.333.1 Available under license :

AWS SDK for Java 2.0

Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained

within such NOTICE file, excluding
those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.334 annotations 2.18.39

1.334.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.335 endpoints-spi 2.18.39

1.335.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

  for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.336 protocol-core 2.18.39

1.336.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS
****

This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute

copies of the

Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following

1.337 utils 2.18.39

1.337.1 Available under license :

AWS SDK for Java 2.0

Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by

Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.

- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.

- Apache Commons Lang - https://github.com/apache/commons-lang

- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams

- Jackson-core - https://github.com/FasterXML/jackson-core

- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
Apache Commons Lang
Copyright 2001-2020
The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct

or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the

Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained

within such NOTICE file, excluding
those notices that do not

pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.338 metrics-spi 2.18.39

1.338.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-

2010 AOL Inc.

- Apache Commons Lang - https://github.com/apache/commons-lang

- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams

- Jackson-core - https://github.com/FasterXML/jackson-core

- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
Copyright 2001-2020
The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

  (a) You must give any other recipients of the Work or
      Derivative Works a copy of this License; and

  (b) You must cause any modified files to carry prominent notices
      stating that You changed the files; and

  (c) You must retain, in the Source form of any Derivative Works
      that You distribute, all copyright, patent, trademark, and
      attribution notices from the Source form of the Work,
      excluding those notices that do not pertain to any part of
      the Derivative Works; and

  (d) If the Work includes a "NOTICE" text file as part of its
      distribution, then any Derivative Works that You distribute must
      include a readable copy of the attribution notices contained
      within such NOTICE file, excluding
those notices that do not
      pertain to any part of the Derivative Works, in at least one
      of the following places: within a NOTICE text file distributed
      as part of the Derivative Works; within the Source form or
      documentation, if provided along with the Derivative Works; or,
      within a display generated by the Derivative Works, if and
      wherever such third-party notices normally appear. The contents
      of the NOTICE file are for informational purposes only and
      do not modify the License. You may add Your own attribution
      notices within Derivative Works that You distribute, alongside
      or as an addendum to the NOTICE text from the Work, provided
      that such additional attribution notices cannot be construed
      as modifying the License.

  You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.339 regions 2.18.39

1.339.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

```
***********************
```
THIRD PARTY COMPONENTS
```
***********************
```
This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.

- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.

- Apache Commons Lang - https://github.com/apache/commons-lang

- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams

- Jackson-core - https://github.com/FasterXML/jackson-core

- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                        Apache License
                   Version 2.0, January 2004
                 http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership
   of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.340 third-party-jackson-core 2.18.39

1.340.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
        pertain to any part of the Derivative Works, in at least one
        of the following places: within a NOTICE text file distributed
        as part of the Derivative Works; within the Source form or
        documentation, if provided along with the Derivative Works; or,
        within a display generated by the Derivative Works, if and
        wherever such third-party notices normally appear. The contents
        of the NOTICE file are for informational purposes only and
        do not modify the License. You may add Your own attribution
        notices within Derivative Works that You distribute, alongside
        or as an addendum to the NOTICE text from the Work, provided
        that such additional attribution notices cannot be construed
        as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

  for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
 distributed under the License is distributed on an "AS IS" BASIS,
 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 See the License for the specific language governing permissions and
 limitations under the License.
AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).
Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0
To find the details that apply to this artifact see the accompanying LICENSE file.

Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.341 auth 2.18.39

1.341.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

```
**********************
THIRD PARTY COMPONENTS
**********************
```

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership
 of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.342 sdk-core 2.18.39

1.342.1 Available under license :

AWS SDK for Java 2.0

Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by

Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed

with the accompanying software if such terms are included in the directory containing the accompanying software. Such other license terms will then apply in lieu of the terms of the software license above.

1.343 openjdk17-jre-headless 17.0.8_p7-r0

1.343.1 Available under license :

```
## c-libutl 20160225


### c-libutl License
```

```

This software is distributed under the terms of the BSD license.

==  BSD LICENSE  ============================================================

(C) 2009 by Remo Dentato (rdentato@gmail.com)


Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright notice,
    this list of conditions and the following disclaimer in the documentation
    and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT
 SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


http://opensource.org/licenses/bsd-license.php


```
```

```
## zlib v1.2.11


### zlib License
<pre>
```

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly   Mark Adler
jloup@gzip.org   madler@alumni.caltech.edu

</pre>
Harfbuzz v2.7.2

Harfbuzz License

https://github.com/harfbuzz/harfbuzz/blob/master/COPYING

<pre>

HarfBuzz is licensed under the so-called "Old MIT" license. Details follow.
For parts of HarfBuzz that are licensed under different licenses see individual
files names COPYING in subdirectories where applicable.

Copyright 2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020 Google, Inc.
Copyright 2018,2019,2020 Ebrahim Byagowi
Copyright 2019,2020 Facebook, Inc.
Copyright 2012 Mozilla Foundation
Copyright 2011 Codethink Limited
Copyright 2008,2010 Nokia Corporation and/or its subsidiary(-ies)
Copyright 2009 Keith Stribley
Copyright 2009 Martin Hosken and SIL International
Copyright 2007 Chris Wilson
Copyright 2006 Behdad Esfahbod
Copyright 2005 David Turner
Copyright 2004,2007,2008,2009,2010 Red Hat, Inc.
Copyright 1998-2004 David Turner and Werner Lemberg

For full copyright notices consult the individual files in the package.

Permission is hereby granted,
 without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

All source code, except for one section, is licensed as above. The one
exception is licensed with a slightly
 different MIT variant:
The contents of this directory are licensed under the following terms:

Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

</pre>
Copyright (c) 1999-2003 David Corcoran <corcoran@musclecard.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions

are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN
 NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some files are under GNU GPL v3 or any later version
- doc/example/pcsc_demo.c
- the files in src/spy/
- the files in UnitaryTests/

  Copyright (C) 2003-2014 Ludovic Rousseau

  This program is free software: you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation, either version 3 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program. If not, see <http://www.gnu.org/licenses/>.

Files src/auth.c and src/auth.h are:
* Copyright (C) 2013 Red Hat
*
* All rights reserved.

xwd v1.0.7

xwd utility
<pre>

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:

list.h, multiVis.h, wsutils.h, list.c, multiVis.c

Copyright 1994 Hewlett-Packard Co.
Copyright 1996, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

</pre>
IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

IAIK License
<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
   include the following acknowledgment:

"This product includes software developed by IAIK of Graz University of
Technology."

Alternately, this acknowledgment may appear in the software itself, if and
wherever such third-party
acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of
Technology" must not be used to endorse or promote products derived from this
software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper",
nor may "IAIK" appear in their name, without prior written permission of
Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

</pre>
CUP Parser Generator for Java v 0.11b

CUP Parser Generator License
<pre>

Copyright 1996-2015 by Scott Hudson, Frank Flannery, C. Scott Ananian, Michael Petter

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both
the copyright notice and this permission notice and warranty disclaimer
appear in supporting documentation, and that the names of the authors or
their employers not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever

resulting from loss of use, data or profits,
 whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.

</pre>
The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT
 OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
The Unicode Standard, Unicode Character Database, Version 13.0.0

Unicode Character Database
```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining

a copy of the Unicode data files and any associated documentation

(the "Data Files") or Unicode software and any associated documentation

(the

 "Software") to deal in the Data Files or Software

without restriction, including without limitation the rights to use,

copy, modify, merge, publish, distribute, and/or sell copies of

the Data Files or Software, and to permit persons to whom the Data Files

or Software are furnished to do so, provided that either

(a) this copyright and permission notice appear with all copies

of the Data Files or Software, or

(b) this copyright and permission notice appear in associated

Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF

ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE

WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT OF THIRD PARTY RIGHTS.

IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS

NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL

DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,

DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE

 OR OTHER

TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR

PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder

shall not be used in advertising or otherwise to promote the sale,

use or other dealings in these Data Files or Software without prior

written authorization of the copyright holder.

```
## jQuery UI v1.12.1

### jQuery UI License
```
Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many

individuals. For exact contribution history, see the revision history

available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as

documented below:

====

Eastman Kodak Company: Portions of color management and imaging software

Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
Thai Dictionary

Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

</pre>
Apache Xerces v2.12.1

Apache Xerces Notice
<pre>
  ===
  == NOTICE file corresponding to section 4(d) of the Apache License,   ==
  == Version 2.0, in this case for the Apache Xerces Java distribution. ==
  ===

  Apache Xerces Java
  Copyright 1999-2020 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

  Portions of this software were originally based on the following:
  - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
  - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
  - voluntary contributions made by Paul Eng on behalf of the
  Apache Software Foundation that were originally developed at iClick, Inc.,
  software copyright (c) 1999.

</pre>

Apache 2.0 License
<pre>

                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean
   an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work
of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work,
but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make,
have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients
   of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with
   the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any

Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of
TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such
damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should
 be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
The FreeType Project: Freetype v2.10.2

FreeType Notice

```

FreeType comes with two licenses from which you can choose the one
which fits your needs best.

   The FreeType License (FTL) is the most commonly used one. It is
   a BSD-style license with a credit clause and thus compatible with
   the GNU Public License (GPL) version 3, but not with the
   GPL version 2.

   The GNU General Public License (GPL), version 2. Use it for all
   projects which use the GPLv2 also, or which need a license
   compatible to the GPLv2.

```

FreeType License
```
                The FreeType Project LICENSE
                ----------------------------


                      2006-Jan-27


                 Copyright 1996-2002, 2006 by
          David Turner, Robert Wilhelm, and Werner Lemberg




Introduction
============


  The FreeType  Project is distributed in  several archive packages;
  some of them may contain, in addition to the FreeType font engine,
  various tools
  and  contributions which rely on, or  relate to, the
  FreeType Project.

  This  license applies  to all  files found  in such  packages, and
  which do not  fall under their own explicit  license.  The license
  affects  thus  the  FreeType   font  engine, the  test  programs,
  documentation and makefiles, at the very least.

  This license  was  inspired  by the  BSD,   Artistic,  and  IJG
  (Independent JPEG  Group) licenses, which  all encourage inclusion
  and  use of  free  software in  commercial  and freeware  products
  alike.  As a consequence, its main points are that:

    o We don't promise that this software works. However, we will be
      interested in any kind of bug reports. (`as is' distribution)


    o You can  use this software for whatever you  want, in parts or
      full form, without having to pay us. (`royalty-free' usage)


    o You may not pretend that  you wrote this software.  If you use
      it, or  only parts of it,  in a program,  you must acknowledge
       somewhere  in  your  documentation  that  you  have  used  the
      FreeType code. (`credits')

  We  specifically  permit  and  encourage  the  inclusion  of  this
  software, with  or without modifications,  in commercial products.
  We  disclaim  all warranties  covering  The  FreeType Project  and
  assume no liability related to The FreeType Project.
```

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

"""
  Portions of this software are copyright <year> The FreeType
  Project (www.freetype.org). All rights reserved.
"""

Please replace <year> with the value from the FreeType version you actually use.

Legal Terms
===========

0. Definitions

Throughout this license, the terms `package', `FreeType Project', and `FreeType archive' refer to the set of files originally distributed by the authors
(David Turner, Robert Wilhelm, and
Werner Lemberg) as the `FreeType Project', be they named as alpha, beta or final release.

`You' refers to the licensee, or person using the project, where `using' is a generic term including compiling the project's source code as well as linking it to form a `program' or `executable'. This program is referred to as `a program using the FreeType engine'.

This license applies to all files distributed in the original FreeType Project, including all source code, binaries and documentation, unless otherwise stated in the file in its original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

1. No Warranty

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,

WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO
USE, OF THE FREETYPE PROJECT.

2. Redistribution

This license grants a worldwide, royalty-free, perpetual and
irrevocable right and license to use, execute, perform, compile,
display, copy, create derivative works of, distribute and
sublicense the FreeType Project (in both source and object code
forms) and derivative works thereof for any purpose; and to
authorize others to exercise some or all of the rights granted
herein, subject to the following conditions:

  o Redistribution of source code must retain this license file
    (`FTL.TXT') unaltered; any additions,
deletions or changes to
    the original files must be clearly indicated in accompanying
    documentation. The copyright notices of the unaltered,
    original files must be preserved in all copies of source
    files.

  o Redistribution in binary form must provide a disclaimer that
    states that the software is based in part of the work of the
    FreeType Team, in the distribution documentation. We also
    encourage you to put an URL to the FreeType web page in your
    documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on
the FreeType Project, not just the unmodified files. If you use
our work, you must acknowledge us. However, no fee need be paid
to us.

3. Advertising

Neither the FreeType authors and contributors nor you shall use
the name of the other for commercial, advertising, or promotional
purposes without specific prior written
permission.

We suggest, but do not require, that you use one or more of the
following phrases to refer to this software in your documentation
or advertising materials: `FreeType Project', `FreeType Engine',
`FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to
accept it. However, as the FreeType Project is copyrighted
material, only this license, or another one contracted with the
authors, grants you the right to use, distribute, and modify it.
Therefore, by using, distributing, or modifying the FreeType
Project, you indicate that you understand and accept all the terms
of this license.

4. Contacts

There are two mailing lists related to FreeType:

  o freetype@nongnu.org

    Discusses general use and applications of FreeType, as well as
    future and wanted additions to the library and distribution.
    If you are looking for support, start in
this list if you
    haven't found anything to help you in the documentation.

  o freetype-devel@nongnu.org

    Discusses bugs, as well as engine internals, design issues,
    specific licenses, porting, etc.

Our home page can be found at

  http://www.freetype.org

```

### GPL v2

```
    GNU GENERAL PUBLIC LICENSE
      Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
  51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

    Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free

software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other
 program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all
 the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent
 must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The
 act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or
 work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such

interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program
itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on
 the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above
on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself
 accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited
 by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution
 system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish
 revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be
 guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

   NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING
 ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

  How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to
give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive
 mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not
 permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

###

--- fthash.c and fthash.h are covered by the following notices ---

/*
* Copyright 2000 Computing Research Labs, New Mexico State University
* Copyright 2001-2015
*   Francesco Zappa Nardelli
*
* Permission is hereby granted, free of charge, to any person obtaining a
* copy of this software and associated documentation files (the "Software"),
* to deal in the Software without restriction, including without limitation
* the rights to use, copy, modify, merge, publish, distribute, sublicense,
* and/or sell copies of the Software, and to permit persons to whom the
* Software is furnished to do so, subject to the
 following conditions:
*
* The above copyright notice and this permission notice shall be included in
* all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
* IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
* THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY
* CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
* OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
* THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*/

/***
 *
 * This file is based on code from bdf.c,v 1.22 2000/03/16 20:08:50
 *
 * taken from Mark Leisher's xmbdfed package
 *
 */

###

--- FreeType 2 PSaux module
 is covered by the following notices ---

Copyright 2006-2014 Adobe Systems Incorporated.

This software, and all works of authorship, whether in source or
object code form as indicated by the copyright notice(s) included
herein (collectively, the "Work") is made available, and may only be
used, modified, and distributed under the FreeType Project License,
LICENSE.TXT. Additionally, subject to the terms and conditions of the
FreeType Project License, each contributor to the Work hereby grants
to any individual or legal entity exercising permissions granted by
the FreeType Project License and this section (hereafter, "You" or
"Your") a perpetual, worldwide, non-exclusive, no-charge,
royalty-free, irrevocable (except as stated in this section) patent
license to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to those
patent claims licensable by such contributor that are necessarily
infringed by their contribution(s) alone
 or by combination of their
contribution(s) with the Work to which such contribution(s) was
submitted. If You institute patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that
the Work or a contribution incorporated within the Work constitutes
direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of
the date such litigation is filed.

By using, modifying, or distributing the Work you indicate that you
have read and understood the terms and conditions of the
FreeType Project License as well as those provided in this section,
and you accept them fully.

###

```
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Files: *
Copyright: APPLICATION_COPYRIGHT
License: APPLICATION_LICENSE_TEXT
                  ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are
subject to the following clarification and special exception to the GPLv2,
based on the GNU Project exception for its Classpath libraries, known as the

GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software package. Some of those programs are provided under licenses deemed incompatible with the GPLv2 by the Free Software Foundation and others. For example, the package includes programs licensed under the Apache License, Version 2.0 and may include FreeType. Such programs are licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the Classpath Exception to the necessary parts of its GPLv2 code, which permits you to use that code in combination with other independent modules not licensed under the GPLv2. However, note that this would
 not permit you to
commingle code under an incompatible license with Oracle's GPLv2 licensed code by, for example, cutting and pasting such code into a file also containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the files to which it applies and distribute the result, you would likely be required to license some or all of the other code in that distribution under the GPLv2 as well, and since the GPLv2 is incompatible with the license terms of some items included in the distribution by Oracle, removing the Classpath Exception could therefore effectively compromise your ability to further distribute the package.

Failing to distribute notices associated with some files may also create unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer skilled in open source matters before removing the Classpath Exception or making modifications
 to this package which may subsequently be redistributed
and/or involve the use of third party software.
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License version 2 only, as published by the Free Software Foundation. Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License version 2 for more details (a copy is included in the LICENSE file that accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact
 Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

## OASIS PKCS #11 Cryptographic Token Interface v3.0

### OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright  OASIS Open 2020. All Rights Reserved.

   All capitalized terms in the following text have the meanings
assigned to them in the OASIS Intellectual Property Rights Policy (the
"OASIS IPR Policy"). The full Policy may be found at the OASIS website:
[http://www.oasis-open.org/policies-guidelines/ipr]

   This document and translations of it may be copied and furnished to
others, and derivative works that comment on or otherwise explain it or
assist in its implementation may be prepared, copied, published, and
distributed, in whole or in part, without restriction of any kind,
provided that the above copyright notice and this section are included
on all such copies and derivative works. However, this document itself
may not be modified in any way, including by removing the copyright
notice or references to OASIS, except as needed for the purpose of
developing any
 document or deliverable produced by an OASIS Technical
Committee (in which case the rules applicable to copyrights, as set
forth in the OASIS IPR Policy, must be followed) or as required to
translate it into languages other than English.

   The limited permissions granted above are perpetual and will not be
revoked by OASIS or its successors or assigns.

   This document and the information contained herein is provided on an
"AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE
INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED
WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS
AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY
PART THEREOF.

   [OASIS requests that any OASIS Party or any other party that

believes it has patent claims that would necessarily be infringed by implementations
 of this OASIS Standards Final Deliverable, to notify
OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this deliverable.]

   [OASIS invites any party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this OASIS Standards Final Deliverable by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this OASIS Standards Final Deliverable. OASIS may include such claims on its website, but disclaims any obligation to do so.]

   [OASIS takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology
 described in this OASIS
Standards Final Deliverable or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on OASIS' procedures with respect to rights in any document or deliverable produced by an OASIS Technical Committee can be found on the OASIS website. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this OASIS Standards Final Deliverable, can be obtained from the OASIS TC Administrator. OASIS makes no representation that any information or list of intellectual property rights will at any time be complete, or that any claims in such list are, in fact, Essential Claims.]

</pre>
## Cryptix AES v3.2.0

### Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are

met:

  1. Redistributions of source code must retain the copyright notice,
    this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND
CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## PC/SC Lite v1.8.26

### PC/SC Lite License
<pre>

Copyright (c) 1999-2003 David Corcoran <corcoran@linuxnet.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

Changes to this license can be made only by the copyright author with
explicit written consent.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
 OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## Mesa 3-D Graphics Library v19.2.1

### Mesa License

```

Copyright (C) 1999-2007 Brian Paul   All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN
 ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Attention, Contributors

When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.
The following section lists the primary components of the Mesa distribution
and their respective licenses.
Mesa Component Licenses

Component   Location   License

Main Mesa code   src/mesa/   MIT
Device drivers   src/mesa/drivers/*   MIT, generally

Gallium code   src/gallium/   MIT

Ext headers   GL/glext.h   Khronos
          GL/glxext.h   Khronos
          GL/wglext.h   Khronos
          KHR/khrplatform.h   Khronos

****

----
include/GL/gl.h :

Mesa 3-D
 graphics library

Copyright (C) 1999-2006 Brian Paul   All Rights Reserved.
Copyright (C) 2009 VMware, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

****

----
include/GL/glext.h

include/GL/glxext.h
include/GL/wglxext.h :

Copyright (c) 2013 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

----
include/KHR/khrplatform.h :

Copyright (c) 2008 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do
 so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

```
## jopt-simple v5.0.4

### MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
## Apache Xalan v2.7.2

### Apache Xalan Notice
<pre>

=========================================================================
====
  ==  NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==
  ==  in this case for the Apache Xalan distribution.                    ==
=========================================================================
====

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
the source from the packages that are part of the XSLTC sources.

Portions of this software was originally based on the following:

  - software copyright (c) 1999-2002, Lotus Development Corporation.,
 http://www.lotus.com.
  - software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
  - software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
  - voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
    Apache Software Foundation and was originally developed at Hewlett Packard Company.

</pre>

### Apache 2.0 License
<pre>

                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

 "License" shall mean the terms and conditions for use, reproduction,
 and distribution as defined by Sections 1 through 9 of this document.

 "Licensor" shall mean the copyright owner or entity authorized by
 the copyright owner that is granting the License.

 "Legal Entity" shall mean the union of the acting entity and all
 other entities that control,
 are controlled by, or are under common
 control with that entity. For the purposes of this definition,
 "control" means (i) the power, direct or indirect, to cause the
 direction or management of such entity, whether by contract or
 otherwise, or (ii) ownership of fifty percent (50%) or more of the
 outstanding shares, or (iii) beneficial ownership of such entity.

 "You" (or "Your") shall mean an individual or Legal Entity
 exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made
available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright
owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare
Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement,
  then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative
  Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement
to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing
the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including
any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted
against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to
 in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,

provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability
 and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>
## Apache Santuario v2.1.4

### Apache Santuario Notice
<pre>

 Apache Santuario - XML Security for Java
 Copyright 1999-2019 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).

 It was originally based on software copyright (c) 2001, Institute for
 Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

 The development of this software was partly funded by the European
 Commission in the <WebSig> project in the ISIS Programme.

</pre>

### Apache 2.0 License
<pre>

                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/


TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION


1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity
authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object
code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
 submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
 this
 License, each Contributor hereby grants to You a perpetual,
 worldwide, non-exclusive, no-charge, royalty-free, irrevocable
 copyright license to reproduce, prepare Derivative Works of,
 publicly display, publicly perform, sublicense, and distribute the
 Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
 this License, each Contributor hereby grants to You a perpetual,
 worldwide, non-exclusive, no-charge, royalty-free, irrevocable
 (except as stated in this section) patent license to make, have made,
 use, offer to sell, sell, import, and otherwise transfer the Work,
 where such license applies only to those patent claims licensable
 by such Contributor that are necessarily infringed by their
 Contribution(s) alone or by combination of their Contribution(s)
 with the Work to which such Contribution(s) was submitted. If You
 institute patent litigation against any entity (including a

 cross-claim or counterclaim in a lawsuit) alleging that the Work
 or a Contribution incorporated within the Work constitutes direct
 or contributory patent infringement, then any patent licenses
 granted to You under this License for that Work shall terminate
 as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
 Work or Derivative Works thereof in any medium, with or without
 modifications, and in Source or Object form, provided that You
 meet the following conditions:

 (a) You must give any other recipients of the Work or
     Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices
     stating that You changed the files; and

 (c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that
do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from
the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not
grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless
required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on
behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except
 in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
## JLine v3.14.0

### JLine License
<pre>

Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND
 FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## Little Color Management System (LCMS) v2.11

### LCMS License
<pre>

Little Color Management System
Copyright (c) 1998-2020 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO
THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>
## DOM Level 3 Core Specification v1.0

### W3C License
<pre>

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee)
agree that you have read, understood, and will comply with the following terms

and conditions.

Permission to copy, modify, and distribute this software and its
documentation, with or without modification, for any purpose and without fee
or royalty is hereby granted, provided that you include the following on ALL
copies of the software and documentation or portions thereof, including
modifications:

  1.The full text of this NOTICE in a location viewable to users of the
  redistributed or derivative work.

  2.Any pre-existing intellectual property disclaimers, notices, or terms and
  conditions. If
none exist, the W3C Software Short Notice should be included
(hypertext is preferred, text is permitted) within the body of any
redistributed or derivative code.

  3.Notice of any changes or modifications to the files, including the date
  changes were made. (We recommend you provide URIs to the location from
  which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS
MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR
PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY
THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL
OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR
DOCUMENTATION.  The name and trademarks of copyright holders may NOT be used
in advertising or publicity pertaining to the software without specific,
written
 prior permission. Title to copyright in this software and any
associated documentation will at all times remain with copyright holders.

_____

This formulation of W3C's notice and license became active on December 31
2002. This version removes the copyright ownership notice such that this
license can be used with materials other than those owned by the W3C, reflects
that ERCIM is now a host of the W3C, includes references to this specific
dated version of the license, and removes the ambiguous grant of "use".
Otherwise, this version is the same as the previous version and is written so
as to preserve the Free Software Foundation's assessment of GPL compatibility
and OSI's certification under the Open Source Definition. Please see our
Copyright FAQ for common questions about using materials from our site,
including specific terms and conditions for packages like libwww, Amaya, and
Jigsaw. Other questions about this notice can be directed to

site-policy@w3.org.

</pre>
## jQuery v3.5.1

### jQuery License
```
jQuery v 3.5.1
Copyright JS Foundation and other contributors, https://js.foundation/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
 IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

****

The jQuery JavaScript Library v3.5.1 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to

permit persons to

 whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE

LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION

OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are

externally maintained libraries used by this software which have their

own licenses; we recommend you read them, as their terms may differ from

the terms above.

****

```

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE

=========================================

PNG Reference Library License version 2

---------------------------------------

* Copyright (c) 1995-2019 The PNG Reference Library Authors.

* Copyright (c) 2018-2019 Cosmin Truta.

* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.

* Copyright (c) 1996-1997 Andreas Dilger.

* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,

express or implied, including, without limitation, the warranties

of merchantability, fitness for a particular purpose, title, and

non-infringement.  In no event shall the Copyright owners, or

anyone distributing the software, be liable for any damages or

other liability, whether in contract, tort or otherwise, arising

from, out of, or in connection with the software, or the use or

other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted
 to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.


PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
-----------------------------------------------------------------------

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer
 and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of
   the library or against infringement.  There is no warranty that our
   efforts or the library will fulfill any of your particular purposes
   or needs.  This library is provided with all faults, and the entire
   risk of satisfactory quality, performance, accuracy, and effort is
   with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson,
 are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

   Tom Lane
   Glenn Randers-Pehrson
   Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

   John Bowler
   Kevin Bracey
   Sam Bushell
   Magnus Holmgren
   Greg Roelofs
   Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

   Andreas Dilger
   Dave Martindale
   Guy Eric Schalnat
   Paul Schmidt
   Tim Wegner

The PNG Reference Library is supplied "AS IS".  The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose.  The Contributing

Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
    be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from any
    source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

All images in this directory are copyright 1995 by Jeff Dinkins.
## GIFLIB v5.2.1

### GIFLIB License
```

The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

https://sourceforge.net/p/giflib/code/ci/master/tree/openbsd-reallocarray.c

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>
SPDX-License-Identifier: MIT
Unicode Common Local Data Repository (CLDR) v38

CLDR License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal
 in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF

ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION,
 ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.


Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.



------------------------------------------------------- Terms of Use -------------------------------------------------------
-

Unicode Copyright and Terms of Use
For the general privacy policy governing access to this site, see the  Unicode Privacy Policy.

Unicode Copyright
Copyright  1991-2020 Unicode, Inc. All rights reserved.
Definitions
Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:
https://www.unicode.org/Public/

Unicode
 Software ("SOFTWARE") includes any source code published in the Unicode Standard
or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/
Terms of Use
Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person
is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the
Unicode Standard, subject to Terms and Conditions herein.
Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject
to the Terms and Conditions herein.
Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE
can be found in the Unicode Data Files and Software License.

Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions
 (Unicode 5.0 and earlier), these are found on the back of the title page.
The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.
All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.
No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.
Modification is not permitted with respect to this document. All copies of this document must be verbatim.
Restricted Rights Legend
Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government
 is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.
Warranties and Disclaimers
This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.
If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.
EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR
 SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.
Waiver of Damages
In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.
Trademarks & Logos
The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium
 and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.
The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.
All third party trademarks referenced herein are the property of their respective owners.
Miscellaneous
Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this

website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and

 damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.
Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.
Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.
Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.
Entire

 Agreement. This Agreement constitutes the entire agreement between the parties.


```

All images in this directory are copyright 1995 by Jeff Dinkins.
Unauthorized reproduction is prohibited.

For more information about Jeff's photographs, please see:
    http://www.theFixx.org/Jeff
libpng v1.6.37

libpng License
<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
===

PNG Reference Library License version 2
----

* Copyright (c) 1995-2019 The PNG Reference Library Authors.
* Copyright (c) 2018-2019 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement. In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility

of
 such damage.

Permission is hereby granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software. If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
----

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and
 are distributed according to the same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of
   the library or against infringement. There is no warranty that our
   efforts or the library will fulfill any of your particular purposes
   or needs. This library is provided with all faults, and the entire
   risk of satisfactory quality, performance, accuracy, and effort is
   with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners, and are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20,
 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

  Tom Lane
  Glenn Randers-Pehrson
  Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88, and are distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

  John Bowler
  Kevin Bracey
  Sam Bushell
  Magnus Holmgren
  Greg Roelofs
  Tom Tanner

Some files in the "scripts" directory have other copyright owners, but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined
 as the following set of individuals:

  Andreas Dilger
  Dave Martindale
  Guy Eric Schalnat
  Paul Schmidt
  Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing

Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
   be misrepresented as being the original source.

3. This Copyright
 notice may not be removed or altered from any
   source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.

</pre>
The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share
and change it. By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users. This General Public License applies to
most of the Free Software Foundation's software and to any other program whose
authors commit to using it. (Some other Free Software Foundation software is
covered by the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
General Public Licenses are designed to make sure that

you have the freedom to
distribute copies of free software (and charge for this service if you wish),
that you receive source code or can get it if you want it, that you can change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny
you these rights or to ask you to surrender the rights. These restrictions
translate to certain responsibilities for you if you distribute copies of the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for
a fee, you must give the recipients all the rights that you have. You must
make sure that they, too, receive or can get the source code. And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also,
 for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software. If the
software is modified by someone else and passed on, we want its recipients to
know that what they have is not the original, so that any problems introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program proprietary.
To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
placed by the copyright holder saying it may be
 distributed under the terms of
this General Public License. The "Program", below, refers to any such program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
Program or a portion of it, either verbatim or with modifications and/or
translated into another language. (Hereinafter, translation is included
without limitation in the term "modification".) Each licensee is addressed as
"you".

Activities other than copying, distribution and modification are not covered by
this License; they are outside its scope. The act of running the Program is
not restricted, and the output from the Program is covered only if its contents
constitute a work based on the Program (independent of having been made by
running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as
you receive it, in any medium, provided
 that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this License
and to the absence of any warranty; and give any other recipients of the
Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may
at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus
forming a work based on the Program, and copy and distribute such modifications
or work under the terms of Section 1 above, provided that you also meet all of
these conditions:

  a) You must cause the modified files to carry prominent notices stating
  that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in whole or
  in part contains or is derived from the Program or any part thereof, to
be
  licensed as a whole at no charge to all third parties under the terms of
  this License.

  c) If the modified program normally reads commands interactively when run,
  you must cause it, when started running for such interactive use in the
  most ordinary way, to print or display an announcement including an
  appropriate copyright notice and a notice that there is no warranty (or
  else, saying that you provide a warranty) and that users may redistribute
  the program under these conditions, and telling the user how to view a copy
  of this License. (Exception: if the Program itself is interactive but does
  not normally print such an announcement, your work based on the Program is
  not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable
sections of that work are not derived from the Program, and can be reasonably
considered independent and separate works in themselves, then this License, and
its
 terms, do not apply to those sections when you distribute them as separate
works. But when you distribute the same sections as part of a whole which is a

work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections
 1 and
2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable source
  code, which must be distributed under the terms of Sections 1 and 2 above
  on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three years, to
  give any third party, for a charge no more than your cost of physically
  performing source distribution, a complete machine-readable copy of the
  corresponding source code, to be distributed under the terms of Sections 1
  and 2 above on a medium customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer to
  distribute corresponding source code. (This alternative is allowed only
  for noncommercial distribution and only if you received the program in
  object code or executable form with such an offer, in accord with
  Subsection b above.)

The source
 code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source

code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute
 the Program except as
expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically
 receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you,
 then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many

people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose that
choice.

This section is intended to make
 thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Program under this License may add an explicit
geographical distribution limitation excluding those countries, so that
distribution is permitted only in or among countries not thus excluded. In
such case, this License incorporates the limitation as if written in the body
of this License.

9. The Free Software Foundation may publish revised and/or new versions of the
General Public License from time to time. Such new versions will be similar in
spirit to the present version, but may differ in detail to address new problems
or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any later
version", you have the option of following the
 terms and conditions either of
that version or of any later version published by the Free Software Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission. For software which is copyrighted by the Free Software Foundation,
write to the Free Software Foundation; we sometimes make exceptions for this.
Our decision will be guided by the two goals of preserving the free status of
all derivatives of our free software and of promoting the sharing and reuse of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS"
 WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND

PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How
 to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach
them to the start of each source file to most effectively convey the exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

  One line to give the program's name and a brief idea of what it does.

  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify it
  under the terms of the GNU General Public License as published by the Free
  Software Foundation; either version 2 of the License, or (at your option)
  any later version.

  This program is distributed in the hope that it will be useful, but WITHOUT
   ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
  FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
  more details.

  You should have received a copy of the GNU General Public License along
  with this program; if not, write to the Free Software Foundation, Inc.,
  51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it

starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
    with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free
    software, and you are welcome to redistribute it under certain conditions;
    type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be
called something
 other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school,
if any, to sign a "copyright disclaimer" for the program, if necessary. Here
is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    'Gnomovision' (which makes passes at compilers) written by James Hacker.

    signature of Ty Coon, 1 April 1989

    Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General Public
License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following
 clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's header
the words "Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this code."

    Linking this library statically or dynamically with other modules is making
    a combined work based on this library. Thus, the terms and conditions of
    the GNU General Public License cover the whole combination.

    As a special exception, the copyright holders of this library give you
    permission to link this library with independent modules to produce an
    executable, regardless of the license terms of these independent modules,
    and to copy and distribute the resulting executable under terms of your

choice, provided that you also meet, for each linked independent module,

the terms and conditions of the license of that module. An independent

module is a module

 which is not derived from or based on this library. If

you modify this library, you may extend this exception to your version of

the library, but you are not obligated to do so. If you do not wish to do

so, delete this exception statement from your version.

Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions

are met:

 - Redistributions of source code must retain the above copyright

   notice, this list of conditions and the following disclaimer.

 - Redistributions in binary form must reproduce the above copyright

   notice, this list of conditions and the following disclaimer in the

   documentation and/or other materials provided with the distribution.

 - Neither the name of Oracle nor the names of its

   contributors may be used to endorse or promote products derived

   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS

IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,

THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE ARE DISCLAIMED. IN NO

 EVENT SHALL THE COPYRIGHT OWNER OR

CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,

EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,

PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR

PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF

LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING

NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS

SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ASM Bytecode Manipulation Framework v8.0.1

ASM License

<pre>

Copyright (c) 2000-2011 France Tlcom

All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions

are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>
Dynalink v.5

Dynalink License
<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN

NO EVENT SHALL COPYRIGHT HOLDER
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
Independent JPEG Group: JPEG release 6b

JPEG License

```

*******************************************************************************

Copyright (C) 1991-1998, Thomas G. Lane.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose.  This software is provided "AS IS",
and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute
this software (or portions thereof) for any purpose,
 without fee,
subject to these conditions:

(1) If any part of the source code for this software is distributed,
then this README file must be included, with this copyright and no-warranty
notice unaltered; and any additions, deletions, or changes to the original
files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation
must state that "this software is based in part on the work of the
Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products
 derived
from it. This software may be referred to only as "the Independent JPEG
Group's software".

We specifically permit and encourage the use of this software as the basis
of commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding
cannot legally be used without obtaining one or more licenses. For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the
 GIF writer has been simplified to
produce "uncompressed GIFs". This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated. GIF(sm) is a
Service Mark property of CompuServe Incorporated."

****************************************************************************
```

International Components for Unicode (ICU4J) v67.1

ICU4J License
```

COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

---------------------

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software
 components included within ICU
libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

From: https://www.unicode.org/copyright.html:

  Unicode Copyright and Terms of Use

  For the general privacy policy governing access to this site, see the  Unicode Privacy Policy.

    Unicode Copyright
        Copyright  1991-2020
 Unicode, Inc. All rights reserved.
    Definitions

    Unicode Data Files ("DATA FILES") include all data files under the directories:
    https://www.unicode.org/Public/
    https://www.unicode.org/reports/

https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:
https://www.unicode.org/Public/

Unicode Software ("SOFTWARE") includes any source code published in the Unicode Standard
or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/

Terms of Use

Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the Unicode Standard, subject to Terms
 and Conditions herein.

Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject to the Terms and Conditions herein.

Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE can be found in the Unicode Data Files and Software License.

Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions (Unicode 5.0 and earlier), these are found on the back of the title page.

The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the
 "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical
 errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO

RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED
 TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy)
 are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa
 Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability.  If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire Agreement. This Agreement constitutes the entire agreement between the parties.


```

Mozilla Public Suffix List

Public Suffix Notice
```

You are receiving a copy of the Mozilla Public Suffix List in the following
file: <java-home>/lib/security/public_suffix_list.dat. The terms of the
Oracle license do NOT apply to this file; it is licensed under the
Mozilla Public License 2.0, separately from the Oracle programs you receive.
If you do not wish to use the Public Suffix List, you may remove the
<java-home>/lib/security/public_suffix_list.dat file.

The Source Code of this file is available under the

Mozilla Public License, v. 2.0 and is located at
https://raw.githubusercontent.com/publicsuffix/list/cbbba1d234670453df9c930dfbf510c0474d4301/public_suffix_li
st.dat.
If a copy of the MPL was not distributed with this file, you can obtain one
at https://mozilla.org/MPL/2.0/.

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations
 under the License.
```

MPL v2.0
```
Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
   means each individual or legal entity that creates, contributes to
   the creation of, or owns Covered Software.

1.2. "Contributor Version"
   means the combination of the Contributions of others (if any) used
   by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
   means Covered Software of a particular Contributor.

1.4. "Covered Software"
   means Source Code Form to which the initial Contributor has attached
   the notice in Exhibit A, the Executable Form of such Source Code
   Form, and Modifications of such Source Code Form, in each case
   including portions thereof.

1.5. "Incompatible With Secondary Licenses"
   means

   (a) that the initial Contributor has attached the notice described
       in Exhibit B to the Covered Software; or

   (b) that the Covered
 Software was made available under the terms of
       version 1.1 or earlier of the License, but not also under the
       terms of a Secondary License.

1.6. "Executable Form"

  means any form of the work other than Source Code Form.

1.7. "Larger Work"

  means a work that combines Covered Software with other material, in

  a separate file or files, that is not Covered Software.

1.8. "License"

  means this document.

1.9. "Licensable"

  means having the right to grant, to the maximum extent possible,

  whether at the time of the initial grant or subsequently, any and

  all of the rights conveyed by this License.

1.10. "Modifications"

  means any of the following:

  (a) any file in Source Code Form that results from an addition to,

     deletion from, or modification of the contents of Covered

     Software; or

  (b) any new file in Source Code Form that contains any Covered

     Software.

1.11. "Patent Claims" of a Contributor

   means any patent

 claim(s), including without limitation, method,

   process, and apparatus claims, in any patent Licensable by such

   Contributor that would be infringed, but for the grant of the

   License, by the making, using, selling, offering for sale, having

   made, import, or transfer of either its Contributions or its

   Contributor Version.

1.12. "Secondary License"

   means either the GNU General Public License, Version 2.0, the GNU

   Lesser General Public License, Version 2.1, the GNU Affero General

   Public License, Version 3.0, or any later versions of those

   licenses.

1.13. "Source Code Form"

   means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

   means an individual or a legal entity exercising rights under this

   License. For legal entities, "You" includes any entity that

   controls, is controlled by, or is under common control with You. For

   purposes of this definition, "control" means (a) the power, direct

or indirect,
to cause the direction or management of such entity,
whether by contract or otherwise, or (b) ownership of more than
fifty percent (50%) of the outstanding shares or beneficial
ownership of such entity.

2. License Grants and Conditions
--------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
    Licensable by such Contributor to use, reproduce, make available,
    modify, display, perform, distribute, and otherwise exploit its
    Contributions, either on an unmodified basis, with Modifications, or
    as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
    for sale, have made, import, and otherwise transfer either its
    Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for
 each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
    or

(b) for infringements caused by: (i) Your and any other third party's
    modifications of Covered Software, or (ii) the combination of its
    Contributions with other software (except as part of its Contributor
    Version); or

(c) under Patent Claims infringed by Covered Software in the absence of

its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section
 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms
 of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
   Form, as described in Section 3.1, and You must inform recipients of
   the Executable Form how they can obtain a copy of such Source Code
   Form by reasonable means in a timely manner, at a charge no more
   than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
   License, or sublicense it under different terms, provided that the
   license for the Executable Form does not attempt to limit or alter
   the recipients' rights in the Source Code Form under this License.

3.3.
 Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known
 factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation

--------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must:
 (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination

--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from
 a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

************************************************************************
*                                                                    *
*                                  *                                  *
*  6. Disclaimer of Warranty                      *                   *

```
*  ------------------------                          *
*                                                   *
*  Covered Software is provided under this License on an "as is"     *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the     *
*  Covered Software is free of defects, merchantable, fit for a       *
*  particular purpose or non-infringing. The entire risk as to the    *
*  quality and performance of the Covered Software is with You.      *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*                                                   
 essential part of this License. No use of any Covered Software is    *
*  authorized under this License except under this disclaimer.        *
*                                                  *
 ****************************************************************************


 ****************************************************************************
*                                                  *
*  7. Limitation of Liability                          *
*  ------------------------                           *
*                                                  *
*  Under no circumstances and under no legal theory, whether tort     *
*  (including negligence), contract, or otherwise, shall any          *
*  Contributor, or anyone who distributes Covered Software as         *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any               
 character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some              *
*  jurisdictions do not allow the exclusion or limitation of          *
*  incidental or consequential damages, so this exclusion and         *
*  limitation may not apply to You.                           *
*                                                  *
 ****************************************************************************


8. Litigation
-------------


Any litigation relating to this License may be brought only in the
courts
 of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
```

jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License.
 Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

   This Source Code Form is subject to the terms of the Mozilla Public
   License, v. 2.0. If a copy of the MPL was not distributed with this
   file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

   This Source Code Form is "Incompatible With Secondary Licenses", as
   defined by the Mozilla Public License, v. 2.0.

```
## Apache Commons Byte Code Engineering Library (BCEL) Version 6.4.1

### Apache Commons BCEL Notice
<pre>

   =========================================================================
   ==  NOTICE file corresponding to the section 4 d of            ==
   ==  the Apache License, Version 2.0,                           ==
   ==  in this case for the Apache Commons BCEL distribution.      ==
   =========================================================================

   This product includes software developed by
   The Apache Software Foundation (http://www.apache.org/).

</pre>

### Apache 2.0 License
<pre>

                    Apache License
                 Version 2.0, January 2004
               http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of
this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation
of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or
additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of
 Copyright License. Subject to the terms and conditions of
 this License, each Contributor hereby grants to You a perpetual,
 worldwide, non-exclusive, no-charge, royalty-free, irrevocable
 copyright license to reproduce, prepare Derivative Works of,
 publicly display, publicly perform, sublicense, and distribute the
 Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
 this License, each Contributor hereby grants to You a perpetual,
 worldwide, non-exclusive, no-charge, royalty-free, irrevocable
 (except as stated in this section) patent license to make, have made,
 use, offer to sell, sell, import, and otherwise transfer the Work,
 where such license applies only to those patent claims licensable
 by such Contributor that are necessarily infringed by their
 Contribution(s) alone or by combination of their Contribution(s)
 with the Work to which such Contribution(s) was submitted. If You
  institute patent litigation against any entity (including a
 cross-claim or counterclaim in a lawsuit) alleging that the Work
 or a Contribution incorporated within the Work constitutes direct
 or contributory patent infringement, then any patent licenses
 granted to You under this License for that Work shall terminate
 as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
 Work or Derivative Works thereof in any medium, with or without
 modifications, and in Source or Object form, provided that You
 meet the following conditions:

 (a) You must give any other recipients of the Work or
     Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices
     stating that You changed the files; and

 (c) You must retain, in the Source form of any Derivative Works
     that You distribute, all copyright, patent, trademark, and

attribution notices from
the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute,
alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor
regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether
 in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act
 only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

  To apply the Apache License to your work, attach the following
  boilerplate notice, with the fields enclosed by brackets "[]"
  replaced with your own identifying information. (Don't include
  the brackets!)  The text should be enclosed in the appropriate
  comment syntax for the file format. We also recommend that a
  file or class name and description of purpose be included on the
  same "printed page" as the copyright notice for easier
  identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License,

Version 2.0 (the "License");

you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and

limitations under the License.

</pre>

Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.

DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it

under the terms of the GNU General Public License version 2 only, as

published by the Free Software Foundation.

This code is distributed in the hope that it will be useful, but WITHOUT

ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or

FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License

version 2 for more details (a copy is included in the LICENSE file that

accompanied this code).

You should have received a copy of the GNU General Public License version

2 along with this work; if not, write to the Free Software Foundation,

Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA

or visit www.oracle.com if you need additional information or have any

questions.

# 1.344 openjdk17 17.0.8_p7-r0

## 1.344.1 Available under license :

## c-libutl 20160225

### c-libutl License
```

This software is distributed under the terms of the BSD license.

== BSD LICENSE ===

(C) 2009 by Remo Dentato (rdentato@gmail.com)

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright notice,
    this list of conditions and the following disclaimer in the documentation
    and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT
 SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

http://opensource.org/licenses/bsd-license.php

```
## zlib v1.2.11

### zlib License
<pre>

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
  claim that you wrote the original software. If you use this software
  in a product, an acknowledgment in the product documentation would be
  appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
  misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

</pre>
## Harfbuzz v2.7.2

### Harfbuzz License

https://github.com/harfbuzz/harfbuzz/blob/master/COPYING

<pre>

HarfBuzz is licensed under the so-called "Old MIT" license.  Details follow.
For parts of HarfBuzz that are licensed under different licenses see individual
files names COPYING in subdirectories where applicable.

Copyright  2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020  Google, Inc.
Copyright  2018,2019,2020  Ebrahim Byagowi
Copyright  2019,2020  Facebook, Inc.
Copyright  2012  Mozilla Foundation
Copyright  2011  Codethink Limited
Copyright  2008,2010  Nokia Corporation and/or its subsidiary(-ies)
Copyright  2009  Keith Stribley
Copyright  2009  Martin Hosken and SIL International
Copyright  2007  Chris Wilson
Copyright  2006  Behdad Esfahbod
Copyright  2005  David Turner
Copyright  2004,2007,2008,2009,2010  Red Hat, Inc.
Copyright  1998-2004  David Turner and Werner Lemberg

For full copyright notices consult the individual files in the package.


Permission is hereby granted,
 without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,

BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

All source code, except for one section, is licensed as above. The one
exception is licensed with a slightly
 different MIT variant:
The contents of this directory are licensed under the following terms:

Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

</pre>
Copyright (c) 1999-2003 David Corcoran <corcoran@musclecard.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN
 NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Some files are under GNU GPL v3 or any later version
- doc/example/pcsc_demo.c
- the files in src/spy/
- the files in UnitaryTests/

Files src/auth.c and src/auth.h are:

* BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
* OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
* AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
* OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
* THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
* DAMAGE.
*
* Author: Nikos Mavrogiannopoulos <nmav@redhat.com>


Files src/simclist.c and src/simclist.h are:
* Copyright (c) 2007,2008,2009,2010,2011 Mij <mij@bitchx.it>
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby
 granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
## xwd v1.0.7

### xwd utility
<pre>

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:
list.h, multiVis.h, wsutils.h, list.c, multiVis.c

Copyright 1994 Hewlett-Packard Co.
Copyright 1996, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

</pre>
## IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

### IAIK License
<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
   include the following acknowledgment:

   "This product includes software developed by IAIK of Graz University of
    Technology."

   Alternately, this acknowledgment may appear in the software itself, if and
   wherever such third-party
 acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of
   Technology" must not be used to endorse or promote products derived from this
   software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper",
   nor may "IAIK" appear in their name, without prior written permission of
   Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,

INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## CUP Parser Generator for Java v 0.11b

### CUP Parser Generator License
<pre>

Copyright 1996-2015 by Scott Hudson, Frank Flannery, C. Scott Ananian, Michael Petter

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both
the copyright notice and this permission notice and warranty disclaimer
appear in supporting documentation, and that the names of the authors or
their employers not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits,
 whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.

</pre>
The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
 OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
## The Unicode Standard, Unicode Character Database, Version 13.0.0

### Unicode Character Database
```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the
 "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE

WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## jQuery UI v1.12.1

### jQuery UI License
```
Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION

OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code contained within the demos directory.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

```
This is the copyright file
UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation
 the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or

(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA
 FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.
jpackage test license file (just some sample text).
## Eastman Kodak Company: Portions of color management and imaging software

### Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
## Thai Dictionary

### Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>
## Apache Xerces v2.12.1

### Apache Xerces Notice
<pre>
  =====================================================================
  == NOTICE file corresponding to section 4(d) of the Apache License,    ==
  == Version 2.0, in this case for the Apache Xerces Java distribution.  ==
  =====================================================================

  Apache Xerces Java
  Copyright 1999-2020 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

  Portions of this software were originally based on the following:
  - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
  - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
  - voluntary contributions made by Paul Eng on behalf of the
  Apache Software Foundation that were originally developed at iClick, Inc.,
  software copyright (c) 1999.
</pre>

### Apache 2.0 License
<pre>


                     Apache License
                  Version 2.0, January 2004
                http://www.apache.org/licenses/


TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION


1. Definitions.


  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean
an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work
of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the

Licensor for the purpose of discussing and improving the Work,
but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make,
have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients
of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with
the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any
Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of

TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such
damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should
be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
## The FreeType Project: Freetype v2.10.2


### FreeType Notice

```

FreeType comes with two licenses from which you can choose the one
which fits your needs best.

  The FreeType License (FTL) is the most commonly used one. It is
  a BSD-style license with a credit clause and thus compatible with
  the GNU Public License (GPL) version 3, but not with the
  GPL version 2.

  The GNU General Public License (GPL), version 2. Use it for all
  projects which use the GPLv2 also, or which need a license
  compatible to the GPLv2.

```


### FreeType License
```
                The FreeType Project LICENSE

                      2006-Jan-27

                Copyright 1996-2002, 2006 by
          David Turner, Robert Wilhelm, and Werner Lemberg

Introduction
============

 The FreeType Project is distributed in several archive packages;
 some of them may contain, in addition to the FreeType font engine,
 various tools

and contributions which rely on, or relate to, the
FreeType Project.

This license applies to all files found in such packages, and
which do not fall under their own explicit license. The license
affects thus the FreeType font engine, the test programs,
documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG
(Independent JPEG Group) licenses, which all encourage inclusion
and use of free software in commercial and freeware products
alike. As a consequence, its main points are that:

  o We don't promise that this software works. However, we will be
    interested in any kind of bug reports. (`as is' distribution)

  o You can use this software for whatever you want, in parts or
    full form, without having to pay us. (`royalty-free' usage)

  o You may not pretend that you wrote this software. If you use
    it, or only parts of it, in a program, you must acknowledge
     somewhere in your documentation that you have used the
    FreeType code. (`credits')

We specifically permit and encourage the inclusion of this
software, with or without modifications, in commercial products.
We disclaim all warranties covering The FreeType Project and
assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a
credit/disclaimer to use in compliance with this license. We thus
encourage you to use the following text:

  """
  Portions of this software are copyright <year> The FreeType
  Project (www.freetype.org). All rights reserved.
  """

Please replace <year> with the value from the FreeType version you
actually use.

Legal Terms
===========

0. Definitions

Throughout this license, the terms `package', `FreeType Project',
and `FreeType archive' refer to the set of files originally
distributed by the authors
 (David Turner, Robert Wilhelm, and
Werner Lemberg) as the `FreeType Project', be they named as alpha,
beta or final release.

`You' refers to the licensee, or person using the project, where
`using' is a generic term including compiling the project's source
code as well as linking it to form a `program' or `executable'.
This program is referred to as `a program using the FreeType
engine'.

This license applies to all files distributed in the original
FreeType Project, including all source code, binaries and
documentation, unless otherwise stated in the file in its
original, unmodified form as distributed in the original archive.
If you are unsure whether or not a particular file is covered by
this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner,
Robert Wilhelm, and Werner Lemberg. All rights reserved except as
specified below.

1. No Warranty

 THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO
USE, OF THE FREETYPE PROJECT.

2. Redistribution

This license grants a worldwide, royalty-free, perpetual and
irrevocable right and license to use, execute, perform, compile,
display, copy, create derivative works of, distribute and
sublicense the FreeType Project (in both source and object code
forms) and derivative works thereof for any purpose; and to
authorize others to exercise some or all of the rights granted
herein, subject to the following conditions:

  o Redistribution of source code must retain this license file
    (`FTL.TXT') unaltered; any additions,

deletions or changes to
the original files must be clearly indicated in accompanying
documentation. The copyright notices of the unaltered,
original files must be preserved in all copies of source
files.

o Redistribution in binary form must provide a disclaimer that
states that the software is based in part of the work of the
FreeType Team, in the distribution documentation. We also
encourage you to put an URL to the FreeType web page in your
documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on
the FreeType Project, not just the unmodified files. If you use
our work, you must acknowledge us. However, no fee need be paid
to us.

3. Advertising

Neither the FreeType authors and contributors nor you shall use
the name of the other for commercial, advertising, or promotional
purposes without specific prior written
permission.

We suggest, but do not require, that you use one or more of the
following phrases to refer to this software in your documentation
or advertising materials: `FreeType Project', `FreeType Engine',
`FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to
accept it. However, as the FreeType Project is copyrighted
material, only this license, or another one contracted with the
authors, grants you the right to use, distribute, and modify it.
Therefore, by using, distributing, or modifying the FreeType
Project, you indicate that you understand and accept all the terms
of this license.

4. Contacts

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as
future and wanted additions to the library and distribution.
If you are looking for support, start in

this list if you
   haven't found anything to help you in the documentation.

 o freetype-devel@nongnu.org

   Discusses bugs, as well as engine internals, design issues,
   specific licenses, porting, etc.

 Our home page can be found at

   http://www.freetype.org

```

### GPL v2

```
   GNU GENERAL PUBLIC LICENSE
      Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
   51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

      Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other
 program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you

distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all
 the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent
 must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

    GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The
 act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the

Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or
 work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program
 itself is interactive but
   does not normally print such an announcement, your work based on
   the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on
 the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above
 on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself
 accompanies the executable.

If distribution of executable or object code is made by offering

access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited
 by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse
 you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other

circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution
 system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish
 revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be
 guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING
ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to
give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive
 mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not
 permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

##

--- fthash.c and fthash.h are covered by the following notices ---

/*
* Copyright 2000 Computing Research Labs, New Mexico State University
* Copyright 2001-2015
*   Francesco Zappa Nardelli

```
 *
 * Permission is hereby granted, free of charge, to any person obtaining a
 * copy of this software and associated documentation files (the "Software"),
 * to deal in the Software without restriction, including without limitation
 * the rights to use, copy, modify, merge, publish, distribute, sublicense,
 * and/or sell copies of the Software, and to permit persons to whom the
 * Software is furnished to do so, subject to the
  following conditions:
 *
 * The above copyright notice and this permission notice shall be included in
 * all copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
 * THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY
 * CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
 * OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
 * THE USE OR OTHER DEALINGS IN THE SOFTWARE.
 */


 /*************************************************************************
  *
  * This file is based on code from bdf.c,v 1.22 2000/03/16 20:08:50
  *
  * taken from Mark Leisher's xmbdfed package
  *
  */


 ##########################################################################


 --- FreeType 2 PSaux module
  is covered by the following notices ---

 Copyright 2006-2014 Adobe Systems Incorporated.

 This software, and all works of authorship, whether in source or
 object code form as indicated by the copyright notice(s) included
 herein (collectively, the "Work") is made available, and may only be
 used, modified, and distributed under the FreeType Project License,
 LICENSE.TXT.  Additionally, subject to the terms and conditions of the
 FreeType Project License, each contributor to the Work hereby grants
 to any individual or legal entity exercising permissions granted by
 the FreeType Project License and this section (hereafter, "You" or
 "Your") a perpetual, worldwide, non-exclusive, no-charge,
 royalty-free, irrevocable (except as stated in this section) patent
 license to make, have made, use, offer to sell, sell, import, and
```

otherwise transfer the Work, where such license applies only to those
patent claims licensable by such contributor that are necessarily
infringed by their contribution(s) alone
 or by combination of their
contribution(s) with the Work to which such contribution(s) was
submitted. If You institute patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that
the Work or a contribution incorporated within the Work constitutes
direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of
the date such litigation is filed.

By using, modifying, or distributing the Work you indicate that you
have read and understood the terms and conditions of the
FreeType Project License as well as those provided in this section,
and you accept them fully.

##

```

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Files: *
Copyright: APPLICATION_COPYRIGHT
License: APPLICATION_LICENSE_TEXT
                    ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are
subject to the following clarification and special exception to the GPLv2,
based on the GNU Project exception for its Classpath libraries, known as the
GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software
package.  Some of those programs are provided under licenses deemed
incompatible with the GPLv2 by the Free Software Foundation and others.
For example, the package includes programs licensed under the Apache
License, Version 2.0 and may include FreeType. Such programs are licensed
to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the
Classpath Exception to the necessary parts of its GPLv2 code, which permits
you to use that code in combination with other independent modules not
licensed under the GPLv2. However, note that this would
 not permit you to
commingle code under an incompatible license with Oracle's GPLv2 licensed
code by, for example, cutting and pasting such code into a file also
containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the
files to which it applies and distribute the result, you would likely be
required to license some or all of the other code in that distribution under
the GPLv2 as well, and since the GPLv2 is incompatible with the license terms
of some items included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to further
distribute the package.

Failing to distribute notices associated with some files may also create
unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer
skilled in open source matters before removing the Classpath Exception or
making modifications
 to this package which may subsequently be redistributed
and/or involve the use of third party software.
## OASIS PKCS #11 Cryptographic Token Interface v3.0

### OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright  OASIS Open 2020. All Rights Reserved.

   All capitalized terms in the following text have the meanings
assigned to them in the OASIS Intellectual Property Rights Policy (the
"OASIS IPR Policy"). The full Policy may be found at the OASIS website:
[http://www.oasis-open.org/policies-guidelines/ipr]

   This document and translations of it may be copied and furnished to
others, and derivative works that comment on or otherwise explain it or
assist in its implementation may be prepared, copied, published, and
distributed, in whole or in part, without restriction of any kind,
provided that the above copyright notice and this section are included
on all such copies and derivative works. However, this document itself
may not be modified in any way, including by removing the copyright
notice or references to OASIS, except as needed for the purpose of
developing any
 document or deliverable produced by an OASIS Technical
Committee (in which case the rules applicable to copyrights, as set
forth in the OASIS IPR Policy, must be followed) or as required to
translate it into languages other than English.

   The limited permissions granted above are perpetual and will not be
revoked by OASIS or its successors or assigns.

   This document and the information contained herein is provided on an
"AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE

INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY PART THEREOF.

   [OASIS requests that any OASIS Party or any other party that
believes it has patent claims that would necessarily be infringed by
implementations
 of this OASIS Standards Final Deliverable, to notify
OASIS TC Administrator and provide an indication of its willingness to
grant patent licenses to such patent claims in a manner consistent with
the IPR Mode of the OASIS Technical Committee that produced this
deliverable.]

   [OASIS invites any party to contact the OASIS TC Administrator if it
is aware of a claim of ownership of any patent claims that would
necessarily be infringed by implementations of this OASIS Standards
Final Deliverable by a patent holder that is not willing to provide a
license to such patent claims in a manner consistent with the IPR Mode
of the OASIS Technical Committee that produced this OASIS Standards
Final Deliverable. OASIS may include such claims on its website, but
disclaims any obligation to do so.]

   [OASIS takes no position regarding the validity or scope of any
intellectual property or other rights that might be claimed to pertain
to the implementation or use of the technology
 described in this OASIS
Standards Final Deliverable or the extent to which any license under
such rights might or might not be available; neither does it represent
that it has made any effort to identify any such rights. Information on
OASIS' procedures with respect to rights in any document or deliverable
produced by an OASIS Technical Committee can be found on the OASIS
website. Copies of claims of rights made available for publication and
any assurances of licenses to be made available, or the result of an
attempt made to obtain a general license or permission for the use of
such proprietary rights by implementers or users of this OASIS Standards
Final Deliverable, can be obtained from the OASIS TC Administrator.
OASIS makes no representation that any information or list of
intellectual property rights will at any time be complete, or that any
claims in such list are, in fact, Essential Claims.]

</pre>
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as

published by the Free Software Foundation. Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact
 Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
## Mesa 3-D Graphics Library v19.2.1

### Mesa License

```

Copyright (C) 1999-2007 Brian Paul   All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN
 ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Attention, Contributors

When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.

The following section lists the primary components of the Mesa distribution
and their respective licenses.
Mesa Component Licenses

Component   Location   License

Main Mesa code   src/mesa/   MIT
Device drivers   src/mesa/drivers/*   MIT, generally

Gallium code   src/gallium/   MIT

Ext headers   GL/glext.h   Khronos
             GL/glxext.h   Khronos
             GL/wglext.h   Khronos
             KHR/khrplatform.h   Khronos

****

----
include/GL/gl.h :

Mesa 3-D
 graphics library

Copyright (C) 1999-2006 Brian Paul   All Rights Reserved.
Copyright (C) 2009 VMware, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

```
*****************************************************************************
```

----
include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

Copyright (c) 2013 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

```
*****************************************************************************
```

----
include/KHR/khrplatform.h :

Copyright (c) 2008 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do
 so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

```
## PC/SC Lite v1.8.26

### PC/SC Lite License
<pre>

Copyright (c) 1999-2003 David Corcoran <corcoran@linuxnet.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

Changes to this license can be made only by the copyright author with
explicit written consent.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
 OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
</pre>
## Cryptix AES v3.2.0

### Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  1. Redistributions of source code must retain the copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
     distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND
CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## jopt-simple v5.0.4

### MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
```

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS

OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL

THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR

OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR

 OTHERWISE,

ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR

OTHER DEALINGS IN THE SOFTWARE.

</pre>
Apache Xalan v2.7.2

Apache Xalan Notice
<pre>

===
====
  == NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==
  == in this case for the Apache Xalan distribution.   ==
===
====

 This product includes software developed by
 The Apache Software Foundation (http://www.apache.org/).

 Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
 The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
 compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
 the source from the packages that are part of the XSLTC sources.

 Portions of this software was originally based on the following:

   - software copyright (c) 1999-2002, Lotus Development Corporation.,
 http://www.lotus.com.
   - software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
   - software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
   - voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
     Apache Software Foundation and was originally developed at Hewlett Packard Company.

</pre>

Apache 2.0 License
<pre>

                    Apache License
              Version 2.0, January 2004
              http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control,
    are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made
    available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright
owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare
Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement,
then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative
 Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement
  to Your modifications and
   may provide additional or different license terms and conditions
   for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing
the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including
any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted
against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to
 in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability
 and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>

Apache Santuario v2.1.4

Apache Santuario Notice
<pre>

 Apache Santuario - XML Security for Java
 Copyright 1999-2019 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).

 It was originally based on software copyright (c) 2001, Institute for
 Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

 The development of this software was partly funded by the European
 Commission in the <WebSig> project in the ISIS Programme.

</pre>

Apache 2.0 License
<pre>

                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity
 authorized by
  the copyright owner that is granting the License.

  "Legal Entity" shall mean the union of the acting entity and all
  other entities that control, are controlled by, or are under common
  control with that entity. For the purposes of this definition,
  "control" means (i) the power, direct or indirect, to cause the
  direction or management of such entity, whether by contract or
  otherwise, or (ii) ownership of fifty percent (50%) or more of the
  outstanding shares, or (iii) beneficial ownership of such entity.

  "You" (or "Your") shall mean an individual or Legal Entity
  exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object
code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
 submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
 this
 License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a

   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that
   do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from
the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not
grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless
required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on
behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except
 in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
JLine v3.14.0

JLine License
<pre>

Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND
 FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
Little Color Management System (LCMS) v2.11

LCMS License
<pre>

Little Color Management System
Copyright (c) 1998-2020 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation

the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO
THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>
DOM Level 3 Core Specification v1.0

W3C License
<pre>

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee)
agree that you have read, understood, and will comply with the following terms
and conditions.

Permission to copy, modify, and distribute this software and its
documentation, with or without modification, for any purpose and without fee
or royalty is hereby granted, provided that you include the following on ALL
copies of the software and documentation or portions thereof, including
modifications:

 1.The full text of this NOTICE in a location viewable to users of the
 redistributed or derivative work.

 2.Any pre-existing intellectual property disclaimers, notices, or terms and
 conditions. If
none exist, the W3C Software Short Notice should be included
 (hypertext is preferred, text is permitted) within the body of any
 redistributed or derivative code.

 3.Notice of any changes or modifications to the files, including the date

changes were made. (We recommend you provide URIs to the location from
 which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS
MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR
PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY
THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL
OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR
DOCUMENTATION. The name and trademarks of copyright holders may NOT be used
in advertising or publicity pertaining to the software without specific,
written
 prior permission. Title to copyright in this software and any
associated documentation will at all times remain with copyright holders.

_____

This formulation of W3C's notice and license became active on December 31
2002. This version removes the copyright ownership notice such that this
license can be used with materials other than those owned by the W3C, reflects
that ERCIM is now a host of the W3C, includes references to this specific
dated version of the license, and removes the ambiguous grant of "use".
Otherwise, this version is the same as the previous version and is written so
as to preserve the Free Software Foundation's assessment of GPL compatibility
and OSI's certification under the Open Source Definition. Please see our
Copyright FAQ for common questions about using materials from our site,
including specific terms and conditions for packages like libwww, Amaya, and
Jigsaw. Other questions about this notice can be directed to
site-policy@w3.org.

</pre>
jQuery v3.5.1

jQuery License
```
jQuery v 3.5.1
Copyright JS Foundation and other contributors, https://js.foundation/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
 IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*******************************************

The jQuery JavaScript Library v3.5.1 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to
 whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

********************

```

All images in this directory are copyright 1995 by Jeff Dinkins.
COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
===

PNG Reference Library License version 2
----

* Copyright (c) 1995-2019 The PNG Reference Library Authors.
* Copyright (c) 2018-2019 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement. In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted
 to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software. If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
----

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer
 and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of
   the library or against infringement. There is no warranty that our
   efforts or the library will fulfill any of your particular purposes
   or needs. This library is provided with all faults, and the entire
   risk of satisfactory quality, performance, accuracy, and effort is
   with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson,
 are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

   Tom Lane
   Glenn Randers-Pehrson
   Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

  John Bowler
  Kevin Bracey
  Sam Bushell
  Magnus Holmgren
  Greg Roelofs
  Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

  Andreas Dilger
  Dave Martindale
  Guy Eric Schalnat
  Paul Schmidt
  Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
   be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from

any

  source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.
Unicode Common Local Data Repository (CLDR) v38

CLDR License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal
 in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE

WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION,
 ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

-------------------------------------------------------- Terms of Use --------------------------------------------------------------
-

Unicode Copyright and Terms of Use
For the general privacy policy governing access to this site, see the  Unicode Privacy Policy.

Unicode Copyright
Copyright  1991-2020 Unicode, Inc. All rights reserved.
Definitions
Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:
https://www.unicode.org/Public/

Unicode
 Software ("SOFTWARE") includes any source code published in the Unicode Standard
or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/
Terms of Use
Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person
is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the
Unicode Standard, subject to Terms and Conditions herein.
Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject
to the Terms and Conditions herein.
Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE
can be found in the Unicode Data Files and Software License.
Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book

editions

 (Unicode 5.0 and earlier), these are found on the back of the title page.

The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government

 is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR

 SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium

 and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this

website and any claims and

 damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability.  If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire

 Agreement. This Agreement constitutes the entire agreement between the parties.


```

GIFLIB v5.2.1

GIFLIB License
```

The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


https://sourceforge.net/p/giflib/code/ci/master/tree/openbsd-reallocarray.c

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>
SPDX-License-Identifier: MIT

All images in this directory are copyright 1995 by Jeff Dinkins.
Unauthorized reproduction is prohibited.

For more information about Jeff's photographs, please see:
    http://www.theFixx.org/Jeff
## libpng v1.6.37

### libpng License
<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2
---------------------------------------

* Copyright (c) 1995-2019 The PNG Reference Library Authors.
* Copyright (c) 2018-2019 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of
 such damage.

Permission is hereby granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)

------------------------------------------------------------------------

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and
 are distributed according to the same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of
   the library or against infringement.  There is no warranty that our
   efforts or the library will fulfill any of your particular purposes
   or needs.  This library is provided with all faults, and the entire
   risk of satisfactory quality, performance, accuracy, and effort is
   with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20,
 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

   Tom Lane
   Glenn Randers-Pehrson
   Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,

and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

  John Bowler
  Kevin Bracey
  Sam Bushell
  Magnus Holmgren
  Greg Roelofs
  Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined
 as the following set of individuals:

  Andreas Dilger
  Dave Martindale
  Guy Eric Schalnat
  Paul Schmidt
  Tim Wegner

The PNG Reference Library is supplied "AS IS".  The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose.  The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
  be misrepresented as being the original source.

3. This Copyright
 notice may not be removed or altered from any
  source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.

</pre>
The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share
and change it. By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users. This General Public License applies to
most of the Free Software Foundation's software and to any other program whose
authors commit to using it. (Some other Free Software Foundation software is
covered by the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
General Public Licenses are designed to make sure that
 you have the freedom to
distribute copies of free software (and charge for this service if you wish),
that you receive source code or can get it if you want it, that you can change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny
you these rights or to ask you to surrender the rights. These restrictions
translate to certain responsibilities for you if you distribute copies of the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for
a fee, you must give the recipients all the rights that you have. You must
make sure that they, too, receive or can get the source code. And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)

offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also,
 for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software.  If the
software is modified by someone else and passed on, we want its recipients to
know that what they have is not the original, so that any problems introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents.  We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program proprietary.
To prevent this, we have made it clear that any patent must be licensed for
everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification
follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice
placed by the copyright holder saying it may be
 distributed under the terms of
this General Public License.  The "Program", below, refers to any such program
or work, and a "work based on the Program" means either the Program or any
derivative work under copyright law: that is to say, a work containing the
Program or a portion of it, either verbatim or with modifications and/or
translated into another language.  (Hereinafter, translation is included
without limitation in the term "modification".) Each licensee is addressed as
"you".

Activities other than copying, distribution and modification are not covered by
this License; they are outside its scope.  The act of running the Program is
not restricted, and the output from the Program is covered only if its contents
constitute a work based on the Program (independent of having been made by
running the Program).  Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as
you receive it, in any medium, provided
 that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this License
and to the absence of any warranty; and give any other recipients of the
Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may
at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus
forming a work based on the Program, and copy and distribute such modifications
or work under the terms of Section 1 above, provided that you also meet all of
these conditions:

   a) You must cause the modified files to carry prominent notices stating
   that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or
   in part contains or is derived from the Program or any part thereof, to
be
   licensed as a whole at no charge to all third parties under the terms of
   this License.

   c) If the modified program normally reads commands interactively when run,
   you must cause it, when started running for such interactive use in the
   most ordinary way, to print or display an announcement including an
   appropriate copyright notice and a notice that there is no warranty (or
   else, saying that you provide a warranty) and that users may redistribute
   the program under these conditions, and telling the user how to view a copy
   of this License.  (Exception: if the Program itself is interactive but does
   not normally print such an announcement, your work based on the Program is
   not required to print an announcement.)

These requirements apply to the modified work as a whole.  If identifiable
sections of that work are not derived from the Program, and can be reasonably
considered independent and separate works in themselves, then this License, and
its
 terms, do not apply to those sections when you distribute them as separate
works.  But when you distribute the same sections as part of a whole which is a
work based on the Program, the distribution of the whole must be on the terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with the
Program (or with a work based on the Program) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of Sections

1 and
2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable source
  code, which must be distributed under the terms of Sections 1 and 2 above
  on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three years, to
  give any third party, for a charge no more than your cost of physically
  performing source distribution, a complete machine-readable copy of the
  corresponding source code, to be distributed under the terms of Sections 1
  and 2 above on a medium customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer to
  distribute corresponding source code.  (This alternative is allowed only
  for noncommercial distribution and only if you received the program in
  object code or executable form with such an offer, in accord with
  Subsection b above.)

The source
 code for a work means the preferred form of the work for making
modifications to it.  For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and installation
of the executable.  However, as a special exception, the source code
distributed need not include anything that is normally distributed (in either
source or binary form) with the major components (compiler, kernel, and so on)
of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even though
third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute
 the Program except as
expressly provided under this License.  Any attempt otherwise to copy, modify,
sublicense or distribute the Program is void, and will automatically terminate
your rights under this License.  However, parties who have received copies, or
rights, from you under this License will not have their licenses terminated so
long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it.
However, nothing else grants you permission to modify or distribute the Program
or its derivative works.  These actions are prohibited by law if you do not
accept this License.  Therefore, by modifying or distributing the Program (or
any work based on the Program), you indicate your acceptance of this License to

do so, and all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program),
the recipient automatically
 receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and conditions.
You may not impose any further restrictions on the recipients' exercise of the
rights granted herein.  You are not responsible for enforcing compliance by
third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues), conditions
are imposed on you (whether by court order, agreement or otherwise) that
contradict the conditions of this License, they do not excuse you from the
conditions of this License.  If you cannot distribute so as to satisfy
simultaneously your obligations under this License and any other pertinent
obligations, then as a consequence you may not distribute the Program at all.
For example, if a patent license would not permit royalty-free redistribution
of the Program by all those who receive copies directly or indirectly through
you,
 then the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply and
the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or
other property right claims or to contest validity of any such claims; this
section has the sole purpose of protecting the integrity of the free software
distribution system, which is implemented by public license practices.  Many
people have made generous contributions to the wide range of software
distributed through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing to
distribute software through any other system and a licensee cannot impose that
choice.

This section is intended to make
 thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain
countries either by patents or by copyrighted interfaces, the original
copyright holder who places the Program under this License may add an explicit
geographical distribution limitation excluding those countries, so that
distribution is permitted only in or among countries not thus excluded.  In
such case, this License incorporates the limitation as if written in the body

of this License.

9. The Free Software Foundation may publish revised and/or new versions of the
General Public License from time to time.  Such new versions will be similar in
spirit to the present version, but may differ in detail to address new problems
or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any later
version", you have the option of following the
 terms and conditions either of
that version or of any later version published by the Free Software Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission.  For software which is copyrighted by the Free Software Foundation,
write to the Free Software Foundation; we sometimes make exceptions for this.
Our decision will be guided by the two goals of preserving the free status of
all derivatives of our free software and of promoting the sharing and reuse of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS"
 WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How

to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program.  It is safest to attach
them to the start of each source file to most effectively convey the exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

   One line to give the program's name and a brief idea of what it does.

   Copyright (C) <year> <name of author>

   This program is free software; you can redistribute it and/or modify it
   under the terms of the GNU General Public License as published by the Free
   Software Foundation; either version 2 of the License, or (at your option)
   any later version.

   This program is distributed in the hope that it will be useful, but WITHOUT
    ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
   FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License for
   more details.

   You should have received a copy of the GNU General Public License along
   with this program; if not, write to the Free Software Foundation, Inc.,
   51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it
starts in an interactive mode:

   Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
   with ABSOLUTELY NO WARRANTY; for details type 'show w'.  This is free
   software, and you are welcome to redistribute it under certain conditions;
   type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may be
called something
 other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school,
if any, to sign a "copyright disclaimer" for the program, if necessary.  Here
is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General Public
License instead of this License.


"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following
 clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's header
the words "Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this code."

  Linking this library statically or dynamically with other modules is making
  a combined work based on this library.  Thus, the terms and conditions of
  the GNU General Public License cover the whole combination.

  As a special exception, the copyright holders of this library give you
  permission to link this library with independent modules to produce an
  executable, regardless of the license terms of these independent modules,
  and to copy and distribute the resulting executable under terms of your
  choice, provided that you also meet, for each linked independent module,
  the terms and conditions of the license of that module.  An independent
  module is a module
 which is not derived from or based on this library.  If
  you modify this library, you may extend this exception to your version of
  the library, but you are not obligated to do so.  If you do not wish to do
  so, delete this exception statement from your version.
## ASM Bytecode Manipulation Framework v8.0.1

### ASM License
<pre>

Copyright (c) 2000-2011 France Tlcom
All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 - Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 - Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

 - Neither the name of Oracle nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE ARE DISCLAIMED.  IN NO
 EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
## Dynalink v.5

### Dynalink License
<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT SHALL COPYRIGHT HOLDER
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## Independent JPEG Group: JPEG release 6b

### JPEG License

```
*****************************************************************************

Copyright (C) 1991-1998, Thomas G. Lane.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose.  This software is provided "AS IS",
and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute
this software (or portions thereof) for any purpose,
 without fee,
subject to these conditions:

(1) If any part of the source code for this software is distributed,
then this README file must be included, with this copyright and no-warranty
notice unaltered; and any additions, deletions, or changes to the original
files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation
must state that "this software is based in part on the work of the
Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library.  If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products
 derived
from it.  This software may be referred to only as "the Independent JPEG
Group's software".

We specifically permit and encourage the use of this software as the basis
of commercial products, provided that all warranty or liability claims are

assumed by the product vendor.

It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi.  Hence arithmetic coding
cannot legally be used without obtaining one or more licenses.  For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the
 GIF writer has been simplified to
produce "uncompressed GIFs".  This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated.  GIF(sm) is a
Service Mark property of CompuServe Incorporated."

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*
```

International Components for Unicode (ICU4J) v67.1

ICU4J License
```

COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED
 "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software
 components included within ICU
libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
 AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR

HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

All trademarks and registered trademarks mentioned herein are the property of their respective owners.

From: https://www.unicode.org/copyright.html:

Unicode Copyright and Terms of Use

For the general privacy policy governing access to this site, see the Unicode Privacy Policy.

Unicode Copyright
    Copyright 1991-2020
Unicode, Inc. All rights reserved.
    Definitions

Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:
https://www.unicode.org/Public/

Unicode Software ("SOFTWARE") includes any source code published in the Unicode Standard or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/

Terms of Use
    Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the Unicode Standard, subject to Terms

and Conditions herein.

Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject to the Terms and Conditions herein.

Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE can be found in the Unicode Data Files and Software License.

Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions (Unicode 5.0 and earlier), these are found on the back of the title page.

The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.
Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.
Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.
Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.
Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy)

are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire Agreement. This Agreement constitutes the entire agreement between the parties.

```

## Mozilla Public Suffix List

### Public Suffix Notice
```

You are receiving a copy of the Mozilla Public Suffix List in the following
file: <java-home>/lib/security/public_suffix_list.dat. The terms of the
Oracle license do NOT apply to this file; it is licensed under the
Mozilla Public License 2.0, separately from the Oracle programs you receive.
If you do not wish to use the Public Suffix List, you may remove the
<java-home>/lib/security/public_suffix_list.dat file.

The Source Code of this file is available under the
Mozilla Public License, v. 2.0 and is located at
https://raw.githubusercontent.com/publicsuffix/list/cbbba1d234670453df9c930dfbf510c0474d4301/public_suffix_list.dat.
If a copy of the MPL was not distributed with this file, you can obtain one
at https://mozilla.org/MPL/2.0/.

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations
 under the License.
```

### MPL v2.0
```

Mozilla Public License Version 2.0
==================================

1. Definitions

1.1. "Contributor"
   means each individual or legal entity that creates, contributes to
   the creation of, or owns Covered Software.

1.2. "Contributor Version"
   means the combination of the Contributions of others (if any) used
   by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
   means Covered Software of a particular Contributor.

1.4. "Covered Software"
   means Source Code Form to which the initial Contributor has attached
   the notice in Exhibit A, the Executable Form of such Source Code
   Form, and Modifications of such Source Code Form, in each case
   including portions thereof.

1.5. "Incompatible With Secondary Licenses"
   means

   (a) that the initial Contributor has attached the notice described
       in Exhibit B to the Covered Software; or

   (b) that the Covered
 Software was made available under the terms of
       version 1.1 or earlier of the License, but not also under the
       terms of a Secondary License.

1.6. "Executable Form"
   means any form of the work other than Source Code Form.

1.7. "Larger Work"
   means a work that combines Covered Software with other material, in
   a separate file or files, that is not Covered Software.

1.8. "License"
   means this document.

1.9. "Licensable"
   means having the right to grant, to the maximum extent possible,
   whether at the time of the initial grant or subsequently, any and
   all of the rights conveyed by this License.

1.10. "Modifications"
  means any of the following:

  (a) any file in Source Code Form that results from an addition to,
      deletion from, or modification of the contents of Covered
      Software; or

  (b) any new file in Source Code Form that contains any Covered
      Software.

1.11. "Patent Claims" of a Contributor
    means any patent
 claim(s), including without limitation, method,
    process, and apparatus claims, in any patent Licensable by such
    Contributor that would be infringed, but for the grant of the
    License, by the making, using, selling, offering for sale, having
    made, import, or transfer of either its Contributions or its
    Contributor Version.

1.12. "Secondary License"
    means either the GNU General Public License, Version 2.0, the GNU
    Lesser General Public License, Version 2.1, the GNU Affero General
    Public License, Version 3.0, or any later versions of those
    licenses.

1.13. "Source Code Form"
    means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
    means an individual or a legal entity exercising rights under this
    License. For legal entities, "You" includes any entity that
    controls, is controlled by, or is under common control with You. For
    purposes of this definition, "control" means (a) the power, direct
    or indirect,
 to cause the direction or management of such entity,
    whether by contract or otherwise, or (b) ownership of more than
    fifty percent (50%) of the outstanding shares or beneficial
    ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
   Licensable by such Contributor to use, reproduce, make available,
   modify, display, perform, distribute, and otherwise exploit its
   Contributions, either on an unmodified basis, with Modifications, or
   as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
   for sale, have made, import, and otherwise transfer either its
   Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for
 each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
   or

(b) for infringements caused by: (i) Your and any other third party's
   modifications of Covered Software, or (ii) the combination of its
   Contributions with other software (except as part of its Contributor
   Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
   its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section
 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms
 of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3.

Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known
 factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must:
 (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from
 a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

****
*   *
*   *   *
* 6. Disclaimer of Warranty   *   *
* -------------------------   *   *
*   *   *
* Covered Software is provided under this License on an "as is"   *
* basis, without warranty of any kind, either expressed, implied, or *
* statutory, including, without limitation, warranties that the   *
* Covered Software is free of defects, merchantable, fit for a   *
* particular purpose or non-infringing. The entire risk as to the   *
* quality and performance of the Covered Software is with You.   *
* Should any Covered Software prove defective in any respect, You   *
* (not any Contributor) assume the cost of any necessary servicing,   *
* repair, or correction. This disclaimer of warranty constitutes an   *
*   *

```
     essential part of this License. No use of any Covered Software is   *
 *  authorized under this License except under this disclaimer.        *
 *                                                 *
 ****************************************************************************


 ****************************************************************************
 *                                                 *
 * 7. Limitation of Liability                          *
 *  --------------------------                         *
 *                                                 *
 *  Under no circumstances and under no legal theory, whether tort      *
 *  (including negligence), contract, or otherwise, shall any          *
 *  Contributor, or anyone who distributes Covered Software as         *
 *  permitted above, be liable to You for any direct, indirect,        *
 *  special, incidental, or consequential damages of any
    character      *
 *  including, without limitation, damages for lost profits, loss of    *
 *  goodwill, work stoppage, computer failure or malfunction, or any     *
 *  and all other commercial damages or losses, even if such party      *
 *  shall have been informed of the possibility of such damages. This   *
 *  limitation of liability shall not apply to liability for death or   *
 *  personal injury resulting from such party's negligence to the       *
 *  extent applicable law prohibits such limitation. Some             *
 *  jurisdictions do not allow the exclusion or limitation of          *
 *  incidental or consequential damages, so this exclusion and         *
 *  limitation may not apply to You.                        *
 *                                                 *
 ****************************************************************************
```

8. Litigation

Any litigation relating to this License may be brought only in the
courts
 of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter

shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License.
 Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

 This Source Code Form is "Incompatible With Secondary Licenses", as
 defined by the Mozilla Public License, v. 2.0.

```

## Apache Commons Byte Code Engineering Library (BCEL) Version 6.4.1

### Apache Commons BCEL Notice
<pre>

  =========================================================================
  ==  NOTICE file corresponding to the section 4 d of            ==
  ==  the Apache License, Version 2.0,                     ==
  ==  in this case for the Apache Commons BCEL distribution.         ==
  =========================================================================

 This product includes software developed by
 The Apache Software Foundation (http://www.apache.org/).

</pre>

### Apache 2.0 License
<pre>

                  Apache License
              Version 2.0, January 2004
            http://www.apache.org/licenses/

 TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

 1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of
 this document.

  "Licensor" shall mean the copyright owner or entity authorized by
  the copyright owner that is granting the License.

  "Legal Entity" shall mean the union of the acting entity and all
  other entities that control, are controlled by, or are under common
  control with that entity. For the purposes of this definition,
  "control" means (i) the power, direct or indirect, to cause the
  direction or management of such entity, whether by contract or
  otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation
of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or
additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of

Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from
the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute,
alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor
regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether
in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act
only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License,
 Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>

Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.

# 1.345 tika 2.9.0

## 1.345.1 Available under license :

APACHE TIKA SUBCOMPONENTS

Apache Tika includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.

Bouncy Castle libraries (bcmail and bcprov)

  Copyright (c) 2000-2009 The Legion Of The Bouncy Castle
  (http://www.bouncycastle.org)

  Permission is hereby granted, free of charge, to any person obtaining
  a copy of this software and associated documentation files
  (the "Software"), to deal in the Software without restriction,
  including without limitation the rights to use, copy, modify, merge,
  publish, distribute, sublicense, and/or sell copies of the Software,
  and to permit persons to whom the Software is furnished to do so,
  subject to the following conditions:

  The above copyright notice and this permission notice shall be included
  in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS",

WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Contributions made to the original PDFBox, JempBox and FontBox projects:

Copyright (c) 2002-2007, www.pdfbox.org
Copyright (c) 2006-2007, www.jempbox.org
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of pdfbox; nor the names of its contributors may be
   used to endorse or promote products derived from this software without
   specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Adobe Font Metrics (AFM) for PDF Core 14 Fonts

This file and the 14 PostScript(R) AFM files it accompanies may be used,
copied, and distributed for any purpose and without charge, with or without
modification, provided that all copyright notices are retained; that the
AFM files are not distributed without this file; that all modifications
to this file or any of the AFM files are prominently noted in the modified

file(s); and that this paragraph is not modified. Adobe Systems has no responsibility or obligation to support the use of the AFM files.

CMaps for PDF Fonts (http://www.adobe.com/devnet/font/#pcfi and ftp://ftp.oreilly.com/pub/examples/nutshell/cjkv/adobe/)

Copyright 1990-2001 Adobe Systems Incorporated.
All Rights Reserved.

Patents Pending

NOTICE: All information contained herein is
the property
of Adobe Systems Incorporated.

Permission is granted for redistribution of this file
provided this copyright notice is maintained intact and
that the contents of this file are not altered in any
way from its original form.

PostScript and Display PostScript are trademarks of
Adobe Systems Incorporated which may be registered in
certain jurisdictions.

Adobe Glyphlist (http://www.adobe.com/devnet/opentype/archives/glyph.html)

Copyright (c) 1997,1998,2002,2007 Adobe Systems Incorporated

Permission is hereby granted, free of charge, to any person obtaining a
copy of this documentation file to use, copy, publish, distribute,
sublicense, and/or sell copies of the documentation, and to permit
others to do the same, provided that:
- No modification, editing or other alteration of this document is
allowed; and
- The above copyright notice and this permission notice shall be
included in all copies of the documentation.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this documentation file, to create their own derivative works
from the content of this document to use, copy, publish, distribute,
sublicense, and/or sell the derivative works, and to permit others to do
the same, provided that the derived work is not represented as being a
copy or version of this document.

Adobe shall not be liable to any party for any loss of revenue or profit
or for indirect, incidental, special, consequential, or other similar
damages, whether based on tort (including without limitation negligence
or strict liability), contract or other legal or equitable grounds even

if Adobe has been advised or had reason to know of the possibility of such damages. The Adobe materials are provided on an "AS IS" basis. Adobe specifically disclaims all express, statutory, or implied warranties relating to the Adobe materials, including but not limited to those concerning merchantability or fitness for a particular purpose or non-infringement of any third party rights regarding the Adobe materials.

Charset detection code from ICU4J (http://site.icu-project.org/)

Copyright (c) 1995-2009 International Business Machines Corporation and others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

ASM library (asm)

Copyright (c) 2000-2005 INRIA, France Telecom
All rights reserved.

Redistribution and use in

source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

MIME type information from file-4.26.tar.gz (http://www.darwinsys.com/file/)

Copyright (c) Ian F. Darwin 1986, 1987, 1989, 1990, 1991, 1992, 1994, 1995.
Software written by Ian F. Darwin and others;
maintained 1994- Christos Zoulas.

This software is not subject to any export provision of the United States
Department of Commerce, and may be exported to any country or planet.

Redistribution and use in source and binary forms, with or without
modification, are permitted
provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice immediately at the beginning of the file, without modification,
   this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Office Open XML schemas (poi-ooxml-schemas)

The Office Open XML schema definitions used by Apache POI are
a part of the Office Open XML ECMA Specification (ECMA-376, [1]).
As defined in section 9.4 of the ECMA bylaws [2], this specification
is available to all interested parties without restriction:

  9.4 All documents when approved shall be made available to
      all interested parties without restriction.

Furthermore, both Microsoft and Adobe have granted patent licenses
to this work [3,4,5].

[1] http://www.ecma-international.org/publications/standards/Ecma-376.htm
[2] http://www.ecma-international.org/memento/Ecmabylaws.htm
[3] http://www.microsoft.com/interop/osp/
 [4] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ECMA-
376%20Edition%201%20Microsoft%20Patent%20Declaration.pdf
 [5] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf

DOM4J library (dom4j)

Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.

Redistribution and use of this software and associated documentation
("Software"), with or without modification, are permitted provided
that the following conditions are met:

1. Redistributions of source code must retain copyright
   statements and notices.  Redistributions must also contain a
   copy of this document.

2. Redistributions in binary form must reproduce the
   above copyright notice, this list of conditions and the
   following disclaimer in the documentation and/or other

materials provided with the distribution.

3. The name "DOM4J" must not be used to endorse or promote
   products derived
from this Software without prior written
   permission of MetaStuff, Ltd.  For written permission,
   please contact dom4j-info@metastuff.com.

4. Products derived from this Software may not be called "DOM4J"
   nor may "DOM4J" appear in their names without prior written
   permission of MetaStuff, Ltd. DOM4J is a registered
   trademark of MetaStuff, Ltd.

5. Due credit should be given to the DOM4J Project -
   http://www.dom4j.org

THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS
``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL
METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

SLF4J library (slf4j-api, slf4j-log4j12)

Copyright (c) 2004-2008 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy of this  software  and  associated  documentation files (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

NetCDF library (netcdf)

Copyright 1998-2009 University Corporation for Atmospheric Research/Unidata

Portions of this software were developed by the Unidata Program at the University Corporation for Atmospheric Research.

Access and use of this software shall impose the following obligations and understandings on the user. The user is granted the right, without any fee or cost, to use, copy, modify, alter, enhance and distribute this software,
and any derivative works thereof, and its supporting documentation for any purpose whatsoever, provided that this entire notice appears in all copies of the software, derivative works and supporting documentation. Further, UCAR requests that the user credit UCAR/Unidata in any publications that result from the use of this software or in any product that includes this software. The names UCAR and/or Unidata, however, may not be used in any advertising or publicity to endorse or promote any products or commercial entity unless specific written permission is obtained from UCAR/Unidata. The user also understands that UCAR/Unidata is not obligated to provide the user with any support, consulting, training or assistance of any kind with regard to the use, operation and performance of this software nor to provide the user with any updates, revisions, new versions or "bug fixes."

THIS SOFTWARE IS PROVIDED BY UCAR/UNIDATA "AS IS" AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL UCAR/UNIDATA BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE ACCESS, USE OR PERFORMANCE OF THIS SOFTWARE.

BZip classes inside the NetCDF library

The Apache Software License, Version 1.1

Copyright (c) 2001-2003 The Apache Software Foundation. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in
 binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.

3. The end-user documentation included with the redistribution, if
   any, must include the following acknowlegement:
     "This product includes software developed by the
      Apache Software Foundation (http://www.apache.org/)."
   Alternately, this acknowlegement may appear in the software itself,
   if and wherever such third-party acknowlegements normally appear.

4. The names "Ant" and "Apache Software
   Foundation" must not be used to endorse or promote products derived
   from this software without prior written permission. For written
   permission, please contact apache@apache.org.

5. Products derived from this software may not be called "Apache"
   nor may "Apache" appear in their names without prior written
   permission
 of the Apache Group.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

XZ compression library (xz)

All the files in this package have been written by Lasse Collin
and/or Igor Pavlov. All these files have been put into the
public domain. You can do

whatever you want with these files.

  This software is provided "as is", without any warranty.

juniversalchardet library (juniversalchardet)

MOZILLA PUBLIC LICENSE
Version 1.1

---------------

1. Definitions.

   1.0.1. "Commercial Use" means distribution or otherwise making the
   Covered Code available to a third party.

   1.1. "Contributor" means each entity that creates or contributes to
   the creation of Modifications.

   1.2. "Contributor Version" means the combination of the Original
   Code, prior Modifications used by a Contributor, and the Modifications
   made by that particular Contributor.

   1.3. "Covered Code" means the Original Code or Modifications or the
   combination of the Original Code and Modifications, in each case
   including portions thereof.

   1.4. "Electronic Distribution Mechanism"
means a mechanism generally
   accepted in the software development community for the electronic
   transfer of data.

   1.5. "Executable" means Covered Code in any form other than Source
   Code.

   1.6. "Initial Developer" means the individual or entity identified
   as the Initial Developer in the Source Code notice required by Exhibit
   A.

   1.7. "Larger Work" means a work which combines Covered Code or
   portions thereof with code not governed by the terms of this License.

   1.8. "License" means this document.

   1.8.1. "Licensable" means having the right to grant, to the maximum
   extent possible, whether at the time of the initial grant or
   subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the
substance or structure of either the Original Code or any previous
Modifications. When Covered
Code is released as a series of files, a
Modification is:
    A. Any addition to or deletion from the contents of a file
    containing Original Code or previous Modifications.

    B. Any new file that contains any part of the Original Code or
    previous Modifications.

1.10. "Original Code" means Source Code of computer software code
which is described in the Source Code notice required by Exhibit A as
Original Code, and which, at the time of its release under this
License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or
hereafter acquired, including without limitation,  method, process,
and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for
making modifications to it, including all modules it contains, plus
 any associated interface definition files, scripts used to control
compilation and installation of an Executable, or source code
differential comparisons against either the Original Code or another
well known, available Covered Code of the Contributor's choice. The
Source Code can be in a compressed or archival form, provided the
appropriate decompression or de-archiving software is widely available
for no charge.

1.12. "You" (or "Your")  means an individual or a legal entity
exercising rights under, and complying with all of the terms of, this
License or a future version of this License issued under Section 6.1.
For legal entities, "You" includes any entity which controls, is
controlled by, or is under common control with You. For purposes of
this definition, "control" means (a) the power, direct or indirect,
to cause the direction or management of such entity,
whether by
contract or otherwise, or (b) ownership of more than fifty percent
(50%) of the outstanding shares or beneficial ownership of such
entity.

 2. Source Code License.

2.1. The Initial Developer Grant.
The Initial Developer hereby grants You a world-wide, royalty-free,
non-exclusive license, subject to third party intellectual property
claims:

(a)  under intellectual property rights (other than patent or
trademark) Licensable by Initial Developer to use, reproduce,
modify, display, perform, sublicense and distribute the Original
Code (or portions thereof) with or without Modifications, and/or
as part of a Larger Work; and

(b) under Patents Claims infringed by the making, using or
selling of Original Code, to make, have made, use, practice,
sell, and offer for sale, and/or otherwise dispose of the
 Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are
effective on the date Initial Developer first distributes
Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is
granted: 1) for code that You delete from the Original Code; 2)
separate from the Original Code;  or 3) for infringements caused
by: i) the modification of the Original Code or ii) the
combination of the Original Code with other software or devices.

2.2. Contributor Grant.
Subject to third party intellectual property claims, each Contributor
hereby grants You a world-wide, royalty-free, non-exclusive license

(a)  under intellectual property rights (other than patent or
trademark) Licensable by Contributor, to use, reproduce, modify,

display, perform, sublicense and distribute the Modifications
created by such Contributor (or portions thereof) either on an
unmodified basis, with other Modifications, as Covered Code
and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or
selling of  Modifications made by that Contributor either alone
and/or in combination with its Contributor Version (or portions
of such combination), to make, use, sell, offer for sale, have
made, and/or otherwise dispose of: 1) Modifications made by that
Contributor (or portions thereof); and 2) the combination of
Modifications made by that Contributor with its Contributor
Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are
effective on the date Contributor first makes Commercial
Use of
the Covered Code.

(d)    Notwithstanding Section 2.2(b) above, no patent license is

granted: 1) for any code that Contributor has deleted from the
Contributor Version; 2) separate from the Contributor Version;
3) for infringements caused by: i) third party modifications of
Contributor Version or ii) the combination of Modifications made
by that Contributor with other software (except as part of the
Contributor Version) or other devices; or 4) under Patent Claims
infringed by Covered Code in the absence of Modifications made by
that Contributor.

3. Distribution Obligations.

3.1. Application of License.
The Modifications which You create or to which You contribute are
governed by the terms of this License, including without limitation
Section 2.2. The Source Code version of Covered Code may be
distributed only under the terms of this License or a future version
of this License released under Section 6.1, and You must include a
copy of this License with every copy of the Source Code You
distribute. You may not offer or impose any terms on any Source Code
version that alters or restricts the applicable version of this
License or the recipients' rights hereunder. However, You may include
an additional document offering the additional rights described in
Section 3.5.

3.2. Availability of Source Code.
Any Modification which You create or to which You contribute must be
made available in Source Code form under the terms of this License
either on the same media as an Executable version or via an accepted
Electronic Distribution Mechanism to anyone to whom you made an
Executable version available; and if made available via Electronic
Distribution Mechanism,
must remain available for at least twelve (12)
months after the date it initially became available, or at least six
(6) months after a subsequent version of that particular Modification
has been made available to such recipients. You are responsible for
ensuring that the Source Code version remains available even if the
Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a
file documenting the changes You made to create that Covered Code and
the date of any change. You must include a prominent statement that
the Modification is derived, directly or indirectly, from Original
Code provided by the Initial Developer and including the name of the
Initial Developer in (a) the Source Code, and (b) in any notice in an
Executable version or related documentation
in which You describe the
origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

(a) Third Party Claims.

If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

(b) Contributor APIs.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c)    Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code.  If it is not

possible to put such notice in a particular Source

Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice.  If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A.  You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code.  You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone,

and You hereby agree to indemnify the Initial
Developer and every Contributor for any liability incurred by the
Initial Developer or such Contributor as a result of warranty,
support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.
You may distribute Covered Code in Executable form only if the
requirements of Section 3.1-3.5 have been met for that Covered Code,
and if You include a notice stating that the Source Code version of
the Covered Code is available under the terms of this License,
including a description of how and where You have fulfilled the
obligations of Section 3.2. The notice must be conspicuously included
in any notice in an Executable version, related documentation or
collateral in which You describe recipients' rights relating to the
Covered Code. You may distribute the Executable version of Covered
Code
or ownership rights under a license of Your choice, which may
contain terms different from this License, provided that You are in
compliance with the terms of this License and that the license for the
Executable version does not attempt to limit or alter the recipient's
rights in the Source Code version from the rights set forth in this
License. If You distribute the Executable version under a different
license You must make it absolutely clear that any terms which differ
from this License are offered by You alone, not by the Initial
Developer or any Contributor. You hereby agree to indemnify the
Initial Developer and every Contributor for any liability incurred by
the Initial Developer or such Contributor as a result of any such
terms You offer.

3.7. Larger Works.
You may create a Larger Work by combining Covered Code with other code
not governed by the terms
of this License and distribute the Larger
Work as a single product. In such a case, You must make sure the
requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Code due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description
must be included in the LEGAL file described in Section 3.4 and must
be included with all distributions of the Source Code. Except to the
extent prohibited by statute or regulation, such description must be
sufficiently detailed for a recipient of ordinary skill to be able to
understand it.

5. Application of this License.

This License applies to code to which the Initial Developer has
attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

6.1. New Versions.
Netscape Communications Corporation ("Netscape") may publish revised
and/or new versions of the License from time to time. Each version
will be given a distinguishing version number.

6.2. Effect of New Versions.
Once Covered Code has been published under a particular version of the
License, You may always continue to use it under the terms of that
version. You may also choose to use such Covered Code under the terms
of any subsequent version of the License published by Netscape. No one
other than Netscape has the right to modify the terms applicable to
Covered Code created under this License.

6.3. Derivative Works.
If You create or use a modified version of this License (which
you may
only do in order to apply it to code which is not already Covered Code
governed by this License), You must (a) rename Your license so that
the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape",
"MPL", "NPL" or any confusingly similar phrase do not appear in your
license (except to note that your license differs from this License)
and (b) otherwise make it clear that Your version of the license
contains terms which differ from the Mozilla Public License and
Netscape Public License. (Filling in the name of the Initial
Developer, Original Code or Contributor in the notice described in
Exhibit A shall not of themselves be deemed to be modifications of
this License.)

7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
WITHOUT LIMITATION,
WARRANTIES THAT THE COVERED CODE IS FREE OF
DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING.
THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE
IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT,
YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE
COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER
OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF

ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

8.1.  This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2.  If You initiate litigation by asserting a patent infringement claim (excluding declatory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You file such action is referred to as "Participant")  alleging that:

(a)  such Participant's Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to
the Contributor Version against such Participant.  If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b)  any software, hardware, or device, other than such Participant's Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3.  If You assert a patent infringement claim against Participant alleging that such Participant's Contributor Version directly
or
indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or

license.

8.4.  In the event of termination under Sections 8.1 or 8.2 above,
all end user license agreements (excluding distributors and resellers)
which have been validly granted by You or any distributor hereunder
prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
(INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL
DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE,
OR ANY SUPPLIER OF ANY OF SUCH
PARTIES, BE LIABLE TO ANY PERSON FOR
ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY
CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL,
WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN
INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF
LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY
RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW
PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE
EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO
THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in
48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
software" and "commercial
computer software documentation," as such
terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48
C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995),
all U.S. Government End Users acquire Covered Code with only those
rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. This License shall be governed by
California law provisions (except to the extent applicable law, if
any, provides otherwise), excluding its conflict-of-law provisions.
With respect to disputes in which at least one party is a citizen of,
or an entity chartered or registered to do business in the United
States of America, any litigation relating to

this License shall be
subject to the jurisdiction of the Federal Courts of the Northern
District of California, with venue lying in Santa Clara County,
California, with the losing party responsible for costs, including
without limitation, court costs and reasonable attorneys' fees and
expenses. The application of the United Nations Convention on
Contracts for the International Sale of Goods is expressly excluded.
Any law or regulation which provides that the language of a contract
shall be construed against the drafter shall not apply to this
License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is
responsible for claims and damages arising, directly or indirectly,
out of its utilization of rights under this License and You agree to
work with Initial Developer and Contributors to distribute such
responsibility
on an equitable basis. Nothing herein is intended or
shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as
"Multiple-Licensed".  "Multiple-Licensed" means that the Initial
Developer permits you to utilize portions of the Covered Code under
Your choice of the NPL or the alternative licenses, if any, specified
by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

``The contents of this file are subject to the Mozilla Public License
Version 1.1 (the "License"); you may not use this file except in
compliance with the License. You may obtain a copy of the License at
http://www.mozilla.org/MPL/

Software distributed under the License is distributed on an "AS IS"
basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the

License for the specific language governing rights and limitations
under the License.

The Original Code is _____.

The Initial Developer of the Original Code is _____.
Portions created by _____ are Copyright (C) _____
_____. All Rights Reserved.

Contributor(s): _____.


      Alternatively, the contents of this file may be used under the terms
      of the _____ license (the  "[___] License"), in which case the
      provisions of [_____] License are applicable instead of those
      above.  If you wish to allow use of your version of this file only
      under the terms of the [____] License and not to allow others to use
      your version of this file under the MPL, indicate your decision by
      deleting  the provisions above and replace  them with the notice and
      other provisions
 required by the [___] License.  If you do not delete
      the provisions above, a recipient may use your version of this file
      under either the MPL or the [___] License."


      [NOTE: The text of this Exhibit A may differ slightly from the text of
      the notices in the Source Code files of the Original Code. You should
      use the text of this Exhibit A rather than the text found in the
      Original Code Source Code for Your Modifications.]
APACHE TIKA SUBCOMPONENTS

Apache Tika includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.

Bouncy Castle libraries (bcmail and bcprov)

  Copyright (c) 2000-2009 The Legion Of The Bouncy Castle
  (http://www.bouncycastle.org)

  Permission is hereby granted, free of charge, to any person obtaining
  a copy of this software and associated documentation files
  (the "Software"), to deal in the Software without restriction,
  including without limitation the rights to use, copy, modify, merge,
  publish, distribute, sublicense, and/or sell copies of the Software,
  and to permit persons to whom the Software is furnished to do so,
  subject to the following conditions:

  The above copyright notice and this permission notice shall be included
  in all copies or substantial portions of the Software.

  THE SOFTWARE IS PROVIDED "AS IS",
 WITHOUT WARRANTY OF ANY KIND, EXPRESS
  OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
  FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
  THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
  OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
  ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
  OTHER DEALINGS IN THE SOFTWARE.

Contributions made to the original PDFBox, JempBox and FontBox projects:

Copyright (c) 2002-2007, www.pdfbox.org
Copyright (c) 2006-2007, www.jempbox.org
All rights reserved.

Adobe Font Metrics (AFM) for PDF Core 14 Fonts

This file and the 14 PostScript(R) AFM files it accompanies may be used,
copied, and distributed for any purpose and without charge, with or without
modification, provided that all copyright notices are retained; that the
AFM files are not distributed without this file; that all modifications
to this file or any of the AFM files are prominently noted in the modified
file(s); and that this paragraph is not modified. Adobe Systems has no
responsibility or obligation to support the use of the AFM files.

CMaps for PDF Fonts (http://www.adobe.com/devnet/font/#pcfi and
ftp://ftp.oreilly.com/pub/examples/nutshell/cjkv/adobe/)

Copyright 1990-2001 Adobe Systems Incorporated.

All Rights Reserved.

Patents Pending

NOTICE: All information contained herein is
the property
of Adobe Systems Incorporated.

Permission is granted for redistribution of this file
provided this copyright notice is maintained intact and
that the contents of this file are not altered in any
way from its original form.

PostScript and Display PostScript are trademarks of
Adobe Systems Incorporated which may be registered in
certain jurisdictions.

Adobe Glyphlist (http://www.adobe.com/devnet/opentype/archives/glyph.html)

Copyright (c) 1997,1998,2002,2007 Adobe Systems Incorporated

Permission is hereby granted, free of charge, to any person obtaining a
copy of this documentation file to use, copy, publish, distribute,
sublicense, and/or sell copies of the documentation, and to permit
others to do the same, provided that:
- No modification, editing or other alteration of this document is
allowed; and
- The above copyright notice and this permission notice shall be
included in all copies of the documentation.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this documentation file, to create their own derivative works
from the content of this document to use, copy, publish, distribute,
sublicense, and/or sell the derivative works, and to permit others to do
the same, provided that the derived work is not represented as being a
copy or version of this document.

Adobe shall not be liable to any party for any loss of revenue or profit
or for indirect, incidental, special, consequential, or other similar
damages, whether based on tort (including without limitation negligence
or strict liability), contract or other legal or equitable grounds even
if Adobe has been advised or had reason to know of the possibility of
such damages. The Adobe materials are provided on an "AS IS" basis.
Adobe specifically disclaims all express, statutory, or implied
warranties relating to the Adobe materials, including
but not limited to
those concerning merchantability or fitness for a particular purpose or
non-infringement of any third party rights regarding the Adobe

materials.

Charset detection code from ICU4J (http://site.icu-project.org/)

Copyright (c) 1995-2009 International Business Machines Corporation
and others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies
of the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE
SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE
BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES,
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall
not be used in advertising or otherwise to promote the sale, use or other
dealings in this Software without prior written authorization of the
copyright holder.

ASM library (asm)

Copyright (c) 2000-2005 INRIA, France Telecom
All rights reserved.

Redistribution and use in
source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

MIME type information from file-4.26.tar.gz (http://www.darwinsys.com/file/)

Copyright (c) Ian F. Darwin 1986, 1987, 1989, 1990, 1991, 1992, 1994, 1995.
Software written by Ian F. Darwin and others;
maintained 1994- Christos Zoulas.

This software is not subject to any export provision of the United States
Department of Commerce, and may be exported to any country or planet.

Redistribution and use in source and binary forms, with or without
modification, are permitted
provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice immediately at the beginning of the file, without modification,
   this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR

BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Office Open XML schemas (poi-ooxml-schemas)

The Office Open XML schema definitions used by Apache POI are
a part of the Office Open XML ECMA Specification (ECMA-376, [1]).
As defined in section 9.4 of the ECMA bylaws [2], this specification
is available to all interested parties without restriction:

  9.4 All documents when approved shall be made available to
      all interested parties without restriction.

Furthermore, both Microsoft and Adobe have granted patent licenses
to this work [3,4,5].

[1] http://www.ecma-international.org/publications/standards/Ecma-376.htm
[2] http://www.ecma-international.org/memento/Ecmabylaws.htm
[3] http://www.microsoft.com/interop/osp/
 [4] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ECMA-
376%20Edition%201%20Microsoft%20Patent%20Declaration.pdf
 [5] http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf

DOM4J library (dom4j)

Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved.

Redistribution and use of this software and associated documentation
("Software"), with or without modification, are permitted provided
that the following conditions are met:

 1. Redistributions of source code must retain copyright
    statements and notices.  Redistributions must also contain a
    copy of this document.

 2. Redistributions in binary form must reproduce the
    above copyright notice, this list of conditions and the
    following disclaimer in the documentation and/or other
    materials provided with the distribution.

 3. The name "DOM4J" must not be used to endorse or promote
    products derived
from this Software without prior written
    permission of MetaStuff, Ltd.  For written permission,
    please contact dom4j-info@metastuff.com.

4. Products derived from this Software may not be called "DOM4J"
   nor may "DOM4J" appear in their names without prior written
   permission of MetaStuff, Ltd. DOM4J is a registered
   trademark of MetaStuff, Ltd.

5. Due credit should be given to the DOM4J Project -
   http://www.dom4j.org

THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL
METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

SLF4J library (slf4j-api, slf4j-log4j12)

Copyright (c) 2004-2008 QOS.ch
All rights reserved.

Permission is hereby granted, free  of charge, to any person obtaining
a  copy  of this  software  and  associated  documentation files  (the
"Software"), to  deal in  the Software without  restriction, including
without limitation  the rights to  use, copy, modify,  merge, publish,
distribute,  sublicense, and/or sell  copies of  the Software,  and to
permit persons to whom the Software  is furnished to do so, subject to
the following conditions:

The  above  copyright  notice  and  this permission  notice  shall  be
included in all copies or substantial portions of the Software.

 THE  SOFTWARE IS  PROVIDED  "AS  IS", WITHOUT  WARRANTY  OF ANY  KIND,
EXPRESS OR  IMPLIED, INCLUDING  BUT NOT LIMITED  TO THE  WARRANTIES OF
MERCHANTABILITY,  FITNESS   FOR  A  PARTICULAR   PURPOSE   AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE,  ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

NetCDF library (netcdf)

Copyright 1998-2009 University Corporation for Atmospheric Research/Unidata

Portions of this software were developed by the Unidata Program at the
University Corporation for Atmospheric Research.

Access and use of this software shall impose the following obligations
and understandings on the user. The user is granted the right, without
any fee or cost, to use, copy, modify, alter, enhance and distribute
this software,
and any derivative works thereof, and its supporting
documentation for any purpose whatsoever, provided that this entire
notice appears in all copies of the software, derivative works and
supporting documentation.  Further, UCAR requests that the user credit
UCAR/Unidata in any publications that result from the use of this
software or in any product that includes this software. The names UCAR
and/or Unidata, however, may not be used in any advertising or publicity
to endorse or promote any products or commercial entity unless specific
written permission is obtained from UCAR/Unidata. The user also
understands that UCAR/Unidata is not obligated to provide the user with
any support, consulting, training or assistance of any kind with regard
to the use, operation and performance of this software nor to provide
the user with any updates, revisions, new versions or "bug fixes."

THIS SOFTWARE IS PROVIDED BY UCAR/UNIDATA "AS IS" AND ANY
EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL UCAR/UNIDATA BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE ACCESS, USE OR PERFORMANCE OF THIS SOFTWARE.

BZip classes inside the NetCDF library

The Apache Software License, Version 1.1

Copyright (c) 2001-2003 The Apache Software Foundation.  All rights
reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in
binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.

3. The end-user documentation included with the redistribution, if
   any, must include the following acknowlegement:
      "This product includes software developed by the
      Apache Software Foundation (http://www.apache.org/)."
   Alternately, this acknowlegement may appear in the software itself,
   if and wherever such third-party acknowlegements normally appear.

4. The names "Ant" and "Apache Software
   Foundation" must not be used to endorse or promote products derived
   from this software without prior written permission. For written
   permission, please contact apache@apache.org.

5. Products derived from this software may not be called "Apache"
   nor may "Apache" appear in their names without prior written
   permission
of the Apache Group.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED.  IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR
ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

XZ compression library (xz)

All the files in this package have been written by Lasse Collin
and/or Igor Pavlov. All these files have been put into the
public domain. You can do
whatever you want with these files.

This software is provided "as is", without any warranty.

XMPCore library (xmpcore)

The BSD License

Copyright (c) 2009, Adobe Systems Incorporated  All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of Adobe Systems Incorporated, nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS
AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANT ABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

juniversalchardet library (juniversalchardet)

MOZILLA PUBLIC LICENSE
Version 1.1

---------------

1. Definitions.

1.0.1. "Commercial Use"
means distribution or otherwise making the
Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to
the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original
Code, prior Modifications used by a Contributor, and the Modifications

made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source
Code notice required by Exhibit
A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:
    A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

    B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original
Code" means Source Code of computer software code
    which is described in the Source Code notice required by Exhibit A as
    Original Code, and which, at the time of its release under this
    License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for

making modifications to it, including all modules it contains, plus
any associated interface definition files, scripts used to control
compilation and installation of an Executable, or source code
differential comparisons against either the Original Code or another
well known, available Covered Code of the Contributor's choice. The
Source Code can be in a compressed or
archival form, provided the
appropriate decompression or de-archiving software is widely available
for no charge.

1.12. "You" (or "Your")  means an individual or a legal entity
exercising rights under, and complying with all of the terms of, this
License or a future version of this License issued under Section 6.1.
For legal entities, "You" includes any entity which controls, is
controlled by, or is under common control with You. For purposes of
this definition, "control" means (a) the power, direct or indirect,
to cause the direction or management of such entity, whether by
contract or otherwise, or (b) ownership of more than fifty percent
(50%) of the outstanding shares or beneficial ownership of such
entity.

2. Source Code License.

2.1. The Initial Developer Grant.
The Initial Developer hereby grants You a world-wide, royalty-free,
non-exclusive
license, subject to third party intellectual property
claims:
     (a)  under intellectual property rights (other than patent or
     trademark) Licensable by Initial Developer to use, reproduce,
     modify, display, perform, sublicense and distribute the Original
     Code (or portions thereof) with or without Modifications, and/or
     as part of a Larger Work; and

     (b) under Patents Claims infringed by the making, using or
     selling of Original Code, to make, have made, use, practice,
     sell, and offer for sale, and/or otherwise dispose of the
     Original Code (or portions thereof).

     (c) the licenses granted in this Section 2.1(a) and (b) are
     effective on the date Initial Developer first distributes
     Original Code under the terms of this License.

     (d) Notwithstanding Section 2.1(b) above, no patent license is

granted: 1) for code that You delete from the Original Code; 2)
     separate from the Original Code;  or 3) for infringements caused
     by: i) the modification of the Original Code or ii) the

---

combination of the Original Code with other software or devices.

2.2. Contributor Grant.
Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a)  under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or

selling of  Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d)    Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2)  separate from the Contributor Version; 3)  for infringements caused by: i) third party modifications

of

Contributor Version or ii)  the combination of Modifications made by that Contributor with other software  (except as part of the Contributor Version) or other devices; or 4) under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Application of License.
The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code

version that alters or restricts the applicable
version of this
License or the recipients' rights hereunder. However, You may include
an additional document offering the additional rights described in
Section 3.5.

3.2. Availability of Source Code.
Any Modification which You create or to which You contribute must be
made available in Source Code form under the terms of this License
either on the same media as an Executable version or via an accepted
Electronic Distribution Mechanism to anyone to whom you made an
Executable version available; and if made available via Electronic
Distribution Mechanism, must remain available for at least twelve (12)
months after the date it initially became available, or at least six
(6) months after a subsequent version of that particular Modification
has been made available to such recipients. You are responsible for
ensuring that the Source Code version remains available
even if the
Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.
You must cause all Covered Code to which You contribute to contain a
file documenting the changes You made to create that Covered Code and
the date of any change. You must include a prominent statement that
the Modification is derived, directly or indirectly, from Original
Code provided by the Initial Developer and including the name of the
Initial Developer in (a) the Source Code, and (b) in any notice in an
Executable version or related documentation in which You describe the
origin or ownership of the Covered Code.

3.4. Intellectual Property Matters
    (a) Third Party Claims.
    If Contributor has knowledge that a license under a third party's
    intellectual property rights is required to exercise the rights
    granted by such
Contributor under Sections 2.1 or 2.2,
        Contributor must include a text file with the Source Code
        distribution titled "LEGAL" which describes the claim and the
        party making the claim in sufficient detail that a recipient will
        know whom to contact. If Contributor obtains such knowledge after
        the Modification is made available as described in Section 3.2,
        Contributor shall promptly modify the LEGAL file in all copies
        Contributor makes available thereafter and shall take other steps
        (such as notifying appropriate mailing lists or newsgroups)
        reasonably calculated to inform those who received the Covered
        Code that new knowledge has been obtained.

    (b) Contributor APIs.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which

are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.

(c)   Representations.
Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.
You must duplicate the notice in Exhibit A in each file of the Source Code.  If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice.  If You created one or more Modification(s) You may add your name as a Contributor to the notice

described in

Exhibit A.  You must also duplicate this License in any documentation for the Source Code where You describe recipients' rights or ownership rights relating to Covered Code.  You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.
You may distribute Covered Code in

Executable form only if the

requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients' rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the

Executable version does not attempt to limit or alter the recipient's
rights in the Source Code version from the rights
set forth in this
License. If You distribute the Executable version under a different
license You must make it absolutely clear that any terms which differ
from this License are offered by You alone, not by the Initial
Developer or any Contributor. You hereby agree to indemnify the
Initial Developer and every Contributor for any liability incurred by
the Initial Developer or such Contributor as a result of any such
terms You offer.

3.7. Larger Works.
You may create a Larger Work by combining Covered Code with other code
not governed by the terms of this License and distribute the Larger
Work as a single product. In such a case, You must make sure the
requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this
License with respect
to some or all of the Covered Code due to
statute, judicial order, or regulation then You must: (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description
must be included in the LEGAL file described in Section 3.4 and must
be included with all distributions of the Source Code. Except to the
extent prohibited by statute or regulation, such description must be
sufficiently detailed for a recipient of ordinary skill to be able to
understand it.

5. Application of this License.

This License applies to code to which the Initial Developer has
attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

6.1. New Versions.
Netscape Communications Corporation ("Netscape") may publish revised
and/or new versions of the License from time to time.
Each version
will be given a distinguishing version number.

6.2. Effect of New Versions.
Once Covered Code has been published under a particular version of the
License, You may always continue to use it under the terms of that
version. You may also choose to use such Covered Code under the terms

of any subsequent version of the License published by Netscape. No one
other than Netscape has the right to modify the terms applicable to
Covered Code created under this License.


6.3. Derivative Works.
If You create or use a modified version of this License (which you may
only do in order to apply it to code which is not already Covered Code
governed by this License), You must (a) rename Your license so that
the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape",
"MPL", "NPL" or any confusingly similar phrase do not appear in your
license (except to note that
your license differs from this License)
and (b) otherwise make it clear that Your version of the license
contains terms which differ from the Mozilla Public License and
Netscape Public License. (Filling in the name of the Initial
Developer, Original Code or Contributor in the notice described in
Exhibit A shall not of themselves be deemed to be modifications of
this License.)


7. DISCLAIMER OF WARRANTY.


COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING,
WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF
DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING.
THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE
IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT,
YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME
THE
COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER
OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF
ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.


8. TERMINATION.


8.1.  This License and the rights granted hereunder will terminate
automatically if You fail to comply with terms herein and fail to cure
such breach within 30 days of becoming aware of the breach. All
sublicenses to the Covered Code which are properly granted shall
survive any termination of this License. Provisions which, by their
nature, must remain in effect beyond the termination of this License
shall survive.


8.2.  If You initiate litigation by asserting a patent infringement
claim (excluding declatory judgment actions) against Initial Developer
or a Contributor (the Initial Developer or Contributor against whom
You file

such action is referred to as "Participant")  alleging that:

(a)  such Participant's Contributor Version directly or indirectly
infringes any patent, then any and all rights granted by such
Participant to You under Sections 2.1 and/or 2.2 of this License
shall, upon 60 days notice from Participant terminate prospectively,
unless if within 60 days after receipt of notice You either: (i)
agree in writing to pay Participant a mutually agreeable reasonable
royalty for Your past and future use of Modifications made by such
Participant, or (ii) withdraw Your litigation claim with respect to
the Contributor Version against such Participant.  If within 60 days
of notice, a reasonable royalty and payment arrangement are not
mutually agreed upon in writing by the parties or the litigation claim
is not withdrawn, the rights granted by Participant to You under
Sections 2.1 and/or

2.2 automatically terminate at the expiration of
the 60 day notice period specified above.

(b)  any software, hardware, or device, other than such Participant's
Contributor Version, directly or indirectly infringes any patent, then
any rights granted to You by such Participant under Sections 2.1(b)
and 2.2(b) are revoked effective as of the date You first made, used,
sold, distributed, or had made, Modifications made by that
Participant.

8.3.  If You assert a patent infringement claim against Participant
alleging that such Participant's Contributor Version directly or
indirectly infringes any patent where such claim is resolved (such as
by license or settlement) prior to the initiation of patent
infringement litigation, then the reasonable value of the licenses
granted by such Participant under Sections 2.1 or 2.2 shall be taken
into account in determining the

amount or value of any payment or
license.

8.4.  In the event of termination under Sections 8.1 or 8.2 above,
all end user license agreements (excluding distributors and resellers)
which have been validly granted by You or any distributor hereunder
prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
(INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL
DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE,
OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR
ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY
CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL,

WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN

INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF
LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY
RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW
PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE
EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO
THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in
48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
software" and "commercial computer software documentation," as such
terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48
C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995),
all U.S. Government End Users acquire Covered Code with only those
rights set forth herein.

11. MISCELLANEOUS.

This
License represents the complete agreement concerning subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. This License shall be governed by
California law provisions (except to the extent applicable law, if
any, provides otherwise), excluding its conflict-of-law provisions.
With respect to disputes in which at least one party is a citizen of,
or an entity chartered or registered to do business in the United
States of America, any litigation relating to this License shall be
subject to the jurisdiction of the Federal Courts of the Northern
District of California, with venue lying in Santa Clara County,
California, with the losing party responsible for costs, including
without limitation, court costs and reasonable attorneys' fees and
expenses. The application
of the United Nations Convention on
Contracts for the International Sale of Goods is expressly excluded.
Any law or regulation which provides that the language of a contract
shall be construed against the drafter shall not apply to this
License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is
responsible for claims and damages arising, directly or indirectly,
out of its utilization of rights under this License and You agree to

work with Initial Developer and Contributors to distribute such
responsibility on an equitable basis. Nothing herein is intended or
shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as
"Multiple-Licensed".  "Multiple-Licensed" means that the Initial
Developer permits you to utilize portions
of the Covered Code under
Your choice of the NPL or the alternative licenses, if any, specified
by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

``The contents of this file are subject to the Mozilla Public License
Version 1.1 (the "License"); you may not use this file except in
compliance with the License. You may obtain a copy of the License at
http://www.mozilla.org/MPL/

Software distributed under the License is distributed on an "AS IS"
basis, WITHOUT WARRANTY OF ANY KIND, either express or implied. See the
License for the specific language governing rights and limitations
under the License.

The Original Code is _____.

The Initial Developer of the Original Code is _____.
Portions created by _____ are Copyright (C) _____
_____.
All Rights Reserved.

Contributor(s): _____.

Alternatively, the contents of this file may be used under the terms
of the _____ license (the  "[___] License"), in which case the
provisions of [_____] License are applicable instead of those
above.  If you wish to allow use of your version of this file only
under the terms of the [____] License and not to allow others to use
your version of this file under the MPL, indicate your decision by
deleting  the provisions above and replace  them with the notice and
other provisions required by the [___] License.  If you do not delete
the provisions above, a recipient may use your version of this file
under either the MPL or the [___] License."

[NOTE: The text of this Exhibit A may differ slightly from the text of
the notices in the Source Code files of the Original Code. You should

use the text of this Exhibit A rather than the text found in the
Original Code Source Code for Your Modifications.]

Sqlite (included in the "provided" org.xerial's sqlite-jdbc)
  Sqlite is in the Public Domain.  For details
  see: https://www.sqlite.org/copyright.html
APACHE TIKA SUBCOMPONENTS

Apache Tika includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.

MIME type information from file-4.26.tar.gz (http://www.darwinsys.com/file/)

  Copyright (c) Ian F. Darwin 1986, 1987, 1989, 1990, 1991, 1992, 1994, 1995.
  Software written by Ian F. Darwin and others;
  maintained 1994- Christos Zoulas.

  This software is not subject to any export provision of the United States
  Department of Commerce, and may be exported to any country or planet.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions
  are met:
  1. Redistributions of source code must retain the above copyright
     notice immediately at the beginning of the file, without modification,
     this list of conditions, and the following disclaimer.
  2. Redistributions
 in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR
  ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
  OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
  HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
  LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
  OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
  SUCH DAMAGE.

IPTC
 Photo Metadata descriptions are taken from the IPTC Photo Metadata
Standard, July 2010, Copyright 2010 International Press Telecommunications

Council.

 1. The Specifications and Materials are licensed for use only on the condition that you agree to be bound by the terms of this license. Subject to this and other licensing requirements contained herein, you may, on a non-exclusive basis, use the Specifications and Materials.
 2. The IPTC openly provides the Specifications and Materials for voluntary use by individuals, partnerships, companies, corporations, organizations and any other entity for use at the entity's own risk. This disclaimer, license and release is intended to apply to the IPTC, its officers, directors, agents, representatives, members, contributors, affiliates, contractors, or co-venturers acting jointly or severally.
 3. The Document and translations thereof may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist
 in its implementation may be prepared, copied, published and distributed, in whole or in part, without restriction of any kind, provided that the copyright and license notices and references to the IPTC appearing in the Document and the terms of this Specifications License Agreement are included on all such copies and derivative works. Further, upon the receipt of written permission from the IPTC, the Document may be modified for the purpose of developing applications that use IPTC Specifications or as required to translate the Document into languages other than English.
 4. Any use, duplication, distribution, or exploitation of the Document and Specifications and Materials in any manner is at your own risk.
 5. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE REGARDING THE ACCURACY, ADEQUACY, COMPLETENESS, LEGALITY, RELIABILITY OR USEFULNESS OF ANY INFORMATION CONTAINED IN THE DOCUMENT OR IN ANY SPECIFICATION OR OTHER PRODUCT OR SERVICE PRODUCED OR SPONSORED BY THE IPTC. THE DOCUMENT
 AND THE INFORMATION CONTAINED HEREIN AND INCLUDED IN ANY SPECIFICATION OR OTHER PRODUCT OR SERVICE OF THE IPTC IS PROVIDED ON AN "AS IS" BASIS. THE IPTC DISCLAIMS ALL WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY ACTUAL OR ASSERTED WARRANTY OF NON-INFRINGEMENT OF PROPRIETARY RIGHTS, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. NEITHER THE IPTC NOR ITS CONTRIBUTORS SHALL BE HELD LIABLE FOR ANY IMPROPER OR INCORRECT USE OF INFORMATION. NEITHER THE IPTC NOR ITS CONTRIBUTORS ASSUME ANY RESPONSIBILITY FOR ANYONE'S USE OF INFORMATION PROVIDED BY THE IPTC. IN NO EVENT SHALL THE IPTC OR ITS CONTRIBUTORS BE LIABLE TO ANYONE FOR DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO, COMPENSATORY DAMAGES, LOST PROFITS, LOST DATA OR ANY FORM OF SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES OF ANY KIND WHETHER BASED ON BREACH OF CONTRACT OR WARRANTY, TORT, PRODUCT LIABILITY OR OTHERWISE.
 6. The IPTC takes no position regarding the validity
 or scope of any Intellectual Property or other rights that might be claimed to pertain to the implementation or use of the technology described in the Document or the extent to which any license under such rights might or might not be available. The IPTC does not represent that it has made any effort to identify any such rights. Copies of claims of rights made available for publication, assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of the Specifications and Materials, can be obtained from the Managing Director of the IPTC.
 7. By using the Specifications and Materials including the Document in any manner or for any purpose, you release the IPTC from all liabilities, claims, causes of action, allegations, losses, injuries, damages, or detriments of any nature arising from or relating to the use of the Specifications, Materials or any portion thereof.
 You further agree not to file a lawsuit, make a claim, or take any other formal or informal legal action against the IPTC, resulting from your acquisition, use, duplication, distribution, or exploitation of the Specifications, Materials or any portion thereof. Finally, you hereby agree that the IPTC is not liable for any direct, indirect, special or consequential damages arising from or relating to your acquisition, use, duplication, distribution, or exploitation of

the Specifications, Materials or any portion thereof.

8. Specifications and Materials may be downloaded or copied provided that ALL copies retain the ownership, copyright and license notices.

9. Materials may not be edited, modified, or presented in a context that creates a misleading or false impression or statement as to the positions, actions, or statements of the IPTC.

10. The name and trademarks of the IPTC may not be used in advertising, publicity, or in relation to products or services and their names without

the specific, written prior permission of the IPTC. Any permitted use of the trademarks of the IPTC, whether registered or not, shall be accompanied by an appropriate mark and attribution, as agreed with the IPTC.

11. Specifications may be extended by both members and non-members to provide additional functionality (Extension Specifications) provided that there is a clear recognition of the IPTC IP and its ownership in the Extension Specifications and the related documentation and provided that the extensions are clearly identified and provided that a perpetual license is granted by the creator of the Extension Specifications for other members and non-members to use the Extension Specifications and to continue extensions of the Extension Specifications. The IPTC does not waive any of its rights in the Specifications and Materials in this context. The Extension Specifications may be considered the intellectual property of their creator. The IPTC expressly disclaims any responsibility

for damage caused by an extension to the Specifications.

12. Specifications and Materials may be included in derivative work of both members and non-members provided that there is a clear recognition of the IPTC IP and its ownership in the derivative work and its related documentation. The IPTC does not waive any of its rights in the Specifications and Materials in this context. Derivative work in its entirety may be considered the intellectual property of the creator of the work .The IPTC expressly disclaims any responsibility for damage caused when its IP is used in a derivative context.

13. This Specifications License Agreement is perpetual subject to your conformance to the terms of this Agreement. The IPTC may terminate this Specifications License Agreement immediately upon your breach of this Agreement and, upon such termination you will cease all use, duplication, distribution, and/or exploitation in any manner of the Specifications and Materials.

14. This Specifications

License Agreement reflects the entire agreement of the parties regarding the subject matter hereof and supersedes all prior agreements or representations regarding such matters, whether written or oral. To the extent any portion or provision of this Specifications License Agreement is found to be illegal or unenforceable, then the remaining provisions of this Specifications License Agreement will remain in full force and effect and the illegal or unenforceable provision will be construed to give it such effect as it may properly have that is consistent with the intentions of the parties.

15. This Specifications License Agreement may only be modified in writing signed by an authorized representative of the IPTC.

16. This Specifications License Agreement is governed by the law of United Kingdom, as such law is applied to contracts made and fully performed in the United Kingdom. Any disputes arising from or relating to this Specifications License Agreement will be resolved in the courts

of the United Kingdom. You consent to the jurisdiction of such courts over you and covenant not to assert before such courts any objection to proceeding in such forums.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a
   copyright notice that is included in or attached to the work
   (an example is provided in the Appendix below).

   "Derivative Works" shall mean any work, whether in Source or Object
   form, that is based on (or derived from) the Work and for which the
   editorial
revisions, annotations, elaborations, or other modifications
   represent, as a whole, an original work of authorship. For the purposes
   of this License, Derivative Works shall not include works that remain
   separable from, or merely link (or bind by name) to the interfaces of,
   the Work and Derivative Works thereof.

   "Contribution" shall mean any work of authorship, including
   the original version of the Work and any modifications or additions
   to that Work or Derivative Works thereof, that is intentionally
   submitted to Licensor for inclusion in the Work by the copyright owner
   or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
  for any such Derivative Works as a whole, provided Your use,
  reproduction, and distribution of the Work otherwise complies with
  the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


APACHE TIKA SUBCOMPONENTS

Apache Tika includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.
-------------------------------
MIME type information from file-4.26.tar.gz (http://www.darwinsys.com/file/)

  Copyright (c) Ian F. Darwin 1986, 1987, 1989, 1990, 1991, 1992, 1994, 1995.
  Software written by Ian F. Darwin and others;
  maintained 1994- Christos Zoulas.

  This software is not subject to any export provision of the United States
  Department of Commerce, and may be exported to any country
 or planet.

  Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions
  are met:
  1. Redistributions of source code must retain the above copyright
    notice immediately at the beginning of the file, without modification,
    this list of conditions, and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in the
    documentation and/or other materials provided with the distribution.

 THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
 ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 DAMAGES (INCLUDING,
 BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
  OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

-------------------------------
Charset detection code from ICU4J (http://site.icu-project.org/)

Copyright (c) 1995-2009 International Business Machines Corporation
and others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to
do so, provided that the above
copyright notice(s) and this permission notice appear in all copies
of the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE
BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES,
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall
not be used in advertising or otherwise to promote the
sale, use or other
dealings in this Software without prior written authorization of the
copyright holder.

-------------------------------
Parsing functionality provided by the NetCDF Java Library (http://www.unidata.ucar.edu/software/netcdf-java/)

Copyright 1993-2010 University Corporation for Atmospheric Research/Unidata

Portions of this software were developed by the Unidata Program at the University
Corporation for Atmospheric Research.

Access and use of this software shall impose the following obligations and understandings
on the user. The user is granted the right, without any fee or cost, to use, copy, modify,
alter, enhance and distribute this software, and any derivative works thereof, and its
supporting documentation for any purpose whatsoever, provided that this entire notice
appears in all copies of the software, derivative works and supporting documentation. Further,
UCAR requests that the user credit UCAR/Unidata
in any publications that result from the use
of this software or in any product that includes this software, although this is not an obligation.
The names UCAR and/or Unidata, however, may not be used in any advertising or publicity to endorse
or promote any products or commercial entity unless specific written permission is obtained from
UCAR/Unidata. The user also understands that UCAR/Unidata is not obligated to provide the user with
any support, consulting, training or assistance of any kind with regard to the use, operation and
performance of this software nor to provide the user with any updates, revisions, new versions or
"bug fixes."

THIS SOFTWARE IS PROVIDED BY UCAR/UNIDATA "AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL UCAR/UNIDATA BE LIABLE FOR ANY SPECIAL, INDIRECT
OR CONSEQUENTIAL

DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION
OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE ACCESS,
USE OR PERFORMANCE OF THIS SOFTWARE.

-------------------------------
IPTC Photo Metadata descriptions are taken from the IPTC Photo Metadata
Standard, July 2010, Copyright 2010 International Press Telecommunications
Council.

1. The Specifications and Materials are licensed for use only on the condition that you agree to be bound by the
terms of this license. Subject to this and other licensing requirements contained herein, you may, on a non-exclusive
basis, use the Specifications and Materials.
2. The IPTC openly provides the Specifications and Materials for voluntary use by individuals, partnerships,
companies, corporations, organizations and any other entity for use at the entity's own risk. This disclaimer, license
and release is intended to apply to the
IPTC, its officers, directors, agents, representatives, members, contributors, affiliates, contractors, or co-venturers
acting jointly or severally.
3. The Document and translations thereof may be copied and furnished to others, and derivative works that
comment on or otherwise explain it or assist in its implementation may be prepared, copied, published and
distributed, in whole or in part, without restriction of any kind, provided that the copyright and license notices and
references to the IPTC appearing in the Document and the terms of this Specifications License Agreement are
included on all such copies and derivative works. Further, upon the receipt of written permission from the IPTC, the
Document may be modified for the purpose of developing applications that use IPTC Specifications or as required to
translate the Document into languages other than English.

4. Any use, duplication, distribution, or exploitation of the Document and Specifications and Materials in any manner

is at your own risk.

5. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE REGARDING THE ACCURACY, ADEQUACY, COMPLETENESS, LEGALITY, RELIABILITY OR USEFULNESS OF ANY INFORMATION CONTAINED IN THE DOCUMENT OR IN ANY SPECIFICATION OR OTHER PRODUCT OR SERVICE PRODUCED OR SPONSORED BY THE IPTC. THE DOCUMENT AND THE INFORMATION CONTAINED HEREIN AND INCLUDED IN ANY SPECIFICATION OR OTHER PRODUCT OR SERVICE OF THE IPTC IS PROVIDED ON AN "AS IS" BASIS. THE IPTC DISCLAIMS ALL WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY ACTUAL OR ASSERTED WARRANTY OF NON-INFRINGEMENT OF PROPRIETARY RIGHTS, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. NEITHER THE IPTC NOR ITS CONTRIBUTORS SHALL BE HELD LIABLE FOR ANY IMPROPER OR INCORRECT USE OF INFORMATION. NEITHER THE IPTC NOR ITS CONTRIBUTORS ASSUME ANY RESPONSIBILITY FOR ANYONE'S USE OF INFORMATION PROVIDED BY THE IPTC. IN NO EVENT SHALL THE IPTC OR ITS CONTRIBUTORS BE LIABLE TO ANYONE FOR DAMAGES OF ANY KIND, INCLUDING

BUT NOT LIMITED TO, COMPENSATORY DAMAGES, LOST PROFITS, LOST DATA OR ANY FORM OF SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES OF ANY KIND WHETHER BASED ON BREACH OF CONTRACT OR WARRANTY, TORT, PRODUCT LIABILITY OR OTHERWISE.

6. The IPTC takes no position regarding the validity or scope of any Intellectual Property or other rights that might be claimed to pertain to the implementation or use of the technology described in the Document or the extent to which any license under such rights might or might not be available. The IPTC does not represent that it has made any effort to identify any such rights. Copies of claims of rights made available for publication, assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of the Specifications and Materials, can be obtained from the Managing Director of the IPTC.

7. By using the Specifications

and Materials including the Document in any manner or for any purpose, you release the IPTC from all liabilities, claims, causes of action, allegations, losses, injuries, damages, or detriments of any nature arising from or relating to the use of the Specifications, Materials or any portion thereof. You further agree not to file a lawsuit, make a claim, or take any other formal or informal legal action against the IPTC, resulting from your acquisition, use, duplication, distribution, or exploitation of the Specifications, Materials or any portion thereof. Finally, you hereby agree that the IPTC is not liable for any direct, indirect, special or consequential damages arising from or relating to your acquisition, use, duplication, distribution, or exploitation of the Specifications, Materials or any portion thereof.

8. Specifications and Materials may be downloaded or copied provided that ALL copies retain the ownership, copyright and license notices.

9. Materials may not be edited,

modified, or presented in a context that creates a misleading or false impression or statement as to the positions, actions, or statements of the IPTC.

10. The name and trademarks of the IPTC may not be used in advertising, publicity, or in relation to products or services and their names without the specific, written prior permission of the IPTC. Any permitted use of the trademarks of the IPTC, whether registered or not, shall be accompanied by an appropriate mark and attribution, as agreed with the IPTC.

11. Specifications may be extended by both members and non-members to provide additional functionality (Extension Specifications) provided that there is a clear recognition of the IPTC IP and its ownership in the Extension Specifications and the related documentation and provided that the extensions are clearly identified and provided that a perpetual license is granted by the creator of the Extension Specifications for other members and

non-members to use the Extension Specifications
and to continue extensions of the Extension Specifications. The IPTC does not waive any of its rights in the Specifications and Materials in this context. The Extension Specifications may be considered the intellectual property of their creator. The IPTC expressly disclaims any responsibility for damage caused by an extension to the Specifications.

12. Specifications and Materials may be included in derivative work of both members and non-members provided that there is a clear recognition of the IPTC IP and its ownership in the derivative work and its related documentation. The IPTC does not waive any of its rights in the Specifications and Materials in this context. Derivative work in its entirety may be considered the intellectual property of the creator of the work .The IPTC expressly disclaims any responsibility for damage caused when its IP is used in a derivative context.

13. This Specifications License Agreement is perpetual subject to your conformance to the terms of
this Agreement. The IPTC may terminate this Specifications License Agreement immediately upon your breach of this Agreement and, upon such termination you will cease all use, duplication, distribution, and/or exploitation in any manner of the Specifications and Materials.

14. This Specifications License Agreement reflects the entire agreement of the parties regarding the subject matter hereof and supersedes all prior agreements or representations regarding such matters, whether written or oral. To the extent any portion or provision of this Specifications License Agreement is found to be illegal or unenforceable, then the remaining provisions of this Specifications License Agreement will remain in full force and effect and the illegal or unenforceable provision will be construed to give it such effect as it may properly have that is consistent with the intentions of the parties.

15. This Specifications License Agreement may only be modified in writing signed by an authorized representative of the IPTC.

16. This Specifications License Agreement is governed by the law of United Kingdom, as such law is applied to contracts made and fully performed in the United Kingdom. Any disputes arising from or relating to this Specifications License Agreement will be resolved in the courts of the United Kingdom. You consent to the jurisdiction of such courts over you and covenant not to assert before such courts any objection to proceeding in such forums.


-------------------------------
JUnRAR (https://github.com/edmund-wagner/junrar/)

    JUnRAR is based on the UnRAR tool, and covered by the same license
    It was formerly available from http://java-unrar.svn.sourceforge.net/


****** ***** ******  UnRAR - free utility for RAR archives
** ** ** ** ** ** ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
****** ******* ******   License for use and distribution of
** ** ** ** ** **  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
** ** ** ** ** **
  FREE portable version
                ~~~~~~~~~~~~~~~~~~~~


  The source code of UnRAR utility is freeware. This means:


 1. All copyrights to RAR and the utility UnRAR are exclusively
    owned by the author - Alexander Roshal.


 2. The UnRAR sources may be used in any software to handle RAR

archives without limitations free of charge, but cannot be used
to re-create the RAR compression algorithm, which is proprietary.
Distribution of modified UnRAR sources in separate form or as a
part of other software is permitted, provided that it is clearly
stated in the documentation and source comments that the code may
not be used to develop a RAR (WinRAR) compatible archiver.

3. The UnRAR utility may be freely distributed. It is allowed
to distribute UnRAR inside of other software packages.

4. THE RAR ARCHIVER AND THE UnRAR UTILITY ARE DISTRIBUTED "AS IS".
NO WARRANTY OF ANY KIND IS EXPRESSED OR IMPLIED.
YOU USE AT
YOUR OWN RISK. THE AUTHOR WILL NOT BE LIABLE FOR DATA LOSS,
DAMAGES, LOSS OF PROFITS OR ANY OTHER KIND OF LOSS WHILE USING
OR MISUSING THIS SOFTWARE.

5. Installing and using the UnRAR utility signifies acceptance of
these terms and conditions of the license.

6. If you don't agree with terms of the license you must remove
UnRAR files from your storage devices and cease to use the
utility.

Thank you for your interest in RAR and UnRAR.  Alexander L. Roshal

-------------------------------
Sqlite (optional) (bundled in org.xerial's sqlite-jdbc)
  This product bundles Sqlite, which is in the Public Domain.  For details
  see: https://www.sqlite.org/copyright.html


-------------------------------
Sample DXF file testDXF.dxf (in tika-parsers/src/test/resources/test-documents)
  Copyright 2012 Ho Thanh Tam, www.cadkit.net

  Permission to use, copy, modify, and distribute this software and its
  documentation for any
purpose is hereby granted without fee, provided
  that the above copyright notice, author statement appear in all copies
  of this software and related documentation.


-------------------------------
H2 Database in tika-eval
  This software contains unmodified binary redistributions for
  H2 database engine (http://www.h2database.com/),
  which is dual licensed and available under the MPL 2.0
  (Mozilla Public License) or under the EPL 1.0 (Eclipse Public License).
  An original copy of the license agreement can be found at:

http://www.h2database.com/html/license.html

------------------------------
org.brotli.dec dependency of commons-compress (MIT License)

Copyright (c) 2009, 2010, 2013-2016 by the Brotli Authors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify,
 merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

----------------------------------------------
quine.gz test file (MIT License)
https://twitter.com/WhoStoleHonno/status/1153315367235784704?s=20

Copyright (c) 2019 by Matthew Barber.

Permission is hereby granted, free of
 charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

com.googlecode.plist:dd-plist
dd-plist
 - An open source library to parse and generate property lists
Copyright (C) 2016 Daniel Dreibrodt

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER
 IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Apache Tika
Copyright 2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Copyright 1993-2010 University Corporation for Atmospheric Research/Unidata
This software contains code derived from UCAR/Unidata's NetCDF library.

Tika-server component uses CDDL-licensed dependencies: jersey (http://jersey.java.net/) and
Grizzly (http://grizzly.java.net/)

Tika-parsers component uses CDDL/LGPL dual-licensed dependency: jhighlight
(https://github.com/codelibs/jhighlight)

OpenCSV: Copyright 2005 Bytecode Pty Ltd. Licensed under the Apache License, Version 2.0

IPTC Photo Metadata descriptions Copyright 2010 International Press Telecommunications Council.

Tika-mimetypes.xml includes mimetype definitions that were adapted from the PRONOM Technical Registry
by The National Archives (http://www.nationalarchives.gov.uk/PRONOM/Default.aspx). PRONOM is published
under the Open Government License 3.0 (http://www.nationalarchives.gov.uk/doc/open-government-

licence/version/3/)

------------------------------
For
 compatibility with Java > 8
org.glassfish.jaxb:jaxb-runtime

License: CDDL 1.1, GPL2 w/ CPE

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1
1. Definitions.

 1.1. "Contributor" means each individual or entity that creates or
 contributes to the creation of Modifications.

 1.2. "Contributor Version" means the combination of the Original
 Software, prior Modifications used by a Contributor (if any), and
 the Modifications made by that particular Contributor.

 1.3. "Covered Software" means (a) the Original Software, or (b)
 Modifications, or (c) the combination of files containing Original
 Software with files containing Modifications, in each case including
 portions thereof.

 1.4. "Executable" means the Covered Software in any form other than
 Source Code.

 1.5. "Initial Developer" means the individual or entity that first
 makes Original Software available
 under this License.

 1.6. "Larger Work" means a work which combines Covered Software or
 portions thereof with code not governed by the terms of this License.

 1.7. "License" means this document.

 1.8. "Licensable" means having the right to grant, to the maximum
 extent possible, whether at the time of the initial grant or
 subsequently acquired, any and all of the rights conveyed herein.

 1.9. "Modifications" means the Source Code and Executable form of
 any of the following:

 A. Any file that results from an addition to, deletion from or
 modification of the contents of a file containing Original Software
 or previous Modifications;

 B. Any new file that contains any part of the Original Software or

previous Modification; or

C. Any new file that is contributed or otherwise made available
under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form
of computer software code that is originally released under this
License.

1.11. "Patent Claims" means any patent claim(s), now owned or
hereafter acquired, including without limitation, method, process,
and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software
code in which modifications are made and (b) associated
documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity
exercising rights under, and complying with all of the terms of,
this License. For legal entities, "You" includes any entity which
controls, is controlled by, or is under common control with You. For
purposes of this definition, "control" means (a) the power, direct
or indirect, to cause the direction or management of such entity,
whether by contract or otherwise, or (b) ownership of more than
fifty percent (50%) of the outstanding shares or beneficial
ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, the Initial Developer
hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or
trademark) Licensable by Initial Developer, to use, reproduce,
modify, display, perform, sublicense and distribute the Original
Software (or portions thereof), with or without Modifications,
and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of
Original Software, to make, have made, use, practice, sell, and
offer for sale, and/or otherwise dispose of the Original Software
(or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on
the date Initial Developer first distributes or otherwise makes the

Original Software available to a third party under the terms of this
License.

(d) Notwithstanding Section 2.1(b)
above, no patent license is
granted: (1) for code that You delete from the Original Software, or
(2) for infringements caused by: (i) the modification of the
Original Software, or (ii) the combination of the Original Software
with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, each Contributor hereby
grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or
trademark) Licensable by Contributor to use, reproduce, modify,
display, perform, sublicense and distribute the Modifications
created by such Contributor (or portions thereof), either on an
unmodified basis, with other Modifications, as Covered Software
and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling
of Modifications made by that Contributor either alone and/or
in
combination with its Contributor Version (or portions of such
combination), to make, use, sell, offer for sale, have made, and/or
otherwise dispose of: (1) Modifications made by that Contributor (or
portions thereof); and (2) the combination of Modifications made by
that Contributor with its Contributor Version (or portions of such
combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
on the date Contributor first distributes or otherwise makes the
Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is
granted: (1) for any code that Contributor has deleted from the
Contributor Version; (2) for infringements caused by: (i) third
party modifications of Contributor Version, or (ii) the combination
of Modifications made by that Contributor with other software
(except as part of the Contributor Version) or other devices; or (3)
under Patent Claims infringed by Covered Software
in the absence of
Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available
in Executable form must also be made available in Source Code form
and that Source Code form must be distributed only under the terms
of this License. You must include a copy of this License with every
copy of the Source Code form of the Covered Software You distribute
or otherwise make available. You must inform recipients of any such
Covered Software in Executable form as to how they can obtain such
Covered Software in Source Code form in a reasonable manner on or
through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are
governed by the terms of this License. You represent that You
believe Your Modifications are Your original creation(s) and/or You
have sufficient rights to grant
the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that
identifies You as the Contributor of the Modification. You may not
remove or alter any copyright, patent or trademark notices contained
within the Covered Software, or any notices of licensing or any
descriptive text giving attribution to any Contributor or the
Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in
Source Code form that alters or restricts the applicable version of
this License or the recipients' rights hereunder. You may choose to
offer, and to charge a fee for, warranty, support, indemnity or
liability obligations to one or more recipients of Covered Software.
However, you may do so only on Your own behalf, and not on behalf of
the Initial Developer or any Contributor. You must make it
absolutely clear that any such warranty, support, indemnity
or
liability obligation is offered by You alone, and You hereby agree
to indemnify the Initial Developer and every Contributor for any
liability incurred by the Initial Developer or such Contributor as a
result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under
the terms of this License or under the terms of a license of Your
choice, which may contain terms different from this License,
provided that You are in compliance with the terms of this License
and that the license for the Executable form does not attempt to
limit or alter the recipient's rights in the Source Code form from
the rights set forth in this License. If You distribute the Covered
Software in Executable form under a different license, You must make
it absolutely clear that any terms which differ from this License
are offered by You alone, not by the Initial Developer
or
Contributor. You hereby agree to indemnify the Initial Developer and
every Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with
other code not governed by the terms of this License and distribute
the Larger Work as a single product. In such a case, You must make
sure the requirements of this License are fulfilled for the Covered
Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or
new versions of this License from time to time. Each version will be
given a distinguishing version number. Except as provided in Section
4.3, no one other than the license steward has the right to modify
this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the
Covered Software available
under the terms of the version of the
License under which You originally received the Covered Software. If
the Initial Developer includes a notice in the Original Software
prohibiting it from being distributed or otherwise made available
under any subsequent version of the License, You must distribute and
make the Covered Software available under the terms of the version
of the License under which You originally received the Covered
Software. Otherwise, You may also choose to use, distribute or
otherwise make the Covered Software available under the terms of any
subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new
license for Your Original Software, You may create and use a
modified version of this License if You: (a) rename the license and
remove any references to the name of the license steward (except to
note that the license differs from this License);
and (b) otherwise
make it clear that the license contains terms which differ from this
License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR
NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate
automatically if You fail to comply with terms herein
and fail to
cure such breach within 30 days of becoming aware of the breach.
Provisions which, by their nature, must remain in effect beyond the
termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding
declaratory judgment actions) against Initial Developer or a
Contributor (the Initial Developer or Contributor against whom You
assert such claim is referred to as "Participant") alleging that the
Participant Software (meaning the Contributor Version where the
Participant is a Contributor or the Original Software where the
Participant is the Initial Developer) directly or indirectly
infringes any patent, then any and all rights granted directly or
indirectly to You by such Participant, the Initial Developer (if the
Initial Developer is not the Participant) and all Contributors under
Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
from Participant terminate prospectively and automatically at
the
expiration of such 60 day notice period, unless if within such 60

day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant alleging that the Participant Software directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

6.4. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights

clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

The

 GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor

Boston, MA 02110-1335

USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to

share and change it. By contrast, the GNU General Public License is

intended to guarantee your freedom to share and change free software--to

make sure the software is free for all its users. This General Public

License applies to most of the Free Software Foundation's software and

to any other program whose authors commit to using it. (Some other Free

Software Foundation software is covered by the GNU Library General

Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.

Our General Public Licenses are designed to make sure that you have

 the

freedom to distribute copies of free software (and charge for this

service if you wish), that you receive source code or can get it if you

want it, that you can change the software or use pieces of it in new

free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone

to deny you these rights or to ask you to surrender the rights. These

restrictions translate to certain responsibilities for you if you

distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis

or for a fee, you must give the recipients all the rights that you have.

You must make sure that they, too, receive or can get the source code.

And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and

(2) offer you this license which gives you legal permission to copy,

distribute and/or modify the software.

Also,

 for each author's protection and ours, we want to make certain

that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so

that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software patents.
We wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program
proprietary. To prevent this, we have made it clear that any patent must
be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed
 under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and
 appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any part
thereof, to be licensed
as a whole at no charge to all third parties
under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a notice
that there is no warranty (or else, saying that you provide a
warranty) and that users may redistribute the program under these
conditions, and telling the user how to view a copy of this License.
(Exception: if the Program itself is interactive but does not
normally print such an announcement, your work based on the Program
is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do
 not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and
 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections 1

and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your cost
of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to
distribute corresponding source code. (This alternative is allowed
only for noncommercial distribution and only if you received the
program in object code or executable form with such an offer, in
accord with Subsection b above.)

The source code
 for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the
 Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all

its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives
 a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only
 way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear
 what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those

countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and
conditions
 either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY
 KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms
 to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  One line to give the program's name and a brief idea of what it does.
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful, but
  WITHOUT ANY WARRANTY; without even
 the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program; if not, write to the Free Software
  Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
  `show w'. This is free software, and you are welcome to redistribute
  it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show
 c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

  signature of Ty Coon, 1 April 1989
  Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
Certain source files distributed by Oracle America, Inc. and/or its affiliates are subject to the following clarification and special exception to the GPLv2, based on
 the GNU Project exception for its
Classpath libraries, known as the GNU Classpath Exception, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the LICENSE file that accompanied this code."

You should also note that Oracle includes multiple, independent programs in this software package. Some of those programs are provided under licenses deemed incompatible with the GPLv2 by the Free Software Foundation and others.  For example, the package includes programs licensed under the Apache License, Version 2.0.  Such programs are licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the Classpath Exception to the necessary parts of its GPLv2 code, which permits you to use that code in combination with other independent modules not licensed under the GPLv2.  However, note that this
 would
not permit you to commingle code under an incompatible license with Oracle's GPLv2 licensed code by, for example, cutting and pasting such code into a file also containing Oracle's GPLv2 licensed code and then distributing the result.  Additionally, if you were to remove the Classpath Exception from any of the files to which it applies and distribute the result, you would likely be required to license some or all of the other code in that distribution under the GPLv2 as well, and since the GPLv2 is incompatible with the license terms of some items included in the distribution by Oracle, removing the Classpath

Exception could therefore effectively compromise your ability to
further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a
lawyer skilled in open source matters before removing the Classpath
Exception or making modifications to this package which may
subsequently be redistributed and/or involve the use of third party
software.

CLASSPATH
 EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.


-------------------------------
For compatibility
 with Java > 8
com.sun.activation:javax.activation

License: CDDL 1.1, GPL2 w/ CPE

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

1. Definitions.

  1.1. "Contributor" means each individual or entity that creates or
  contributes to the creation of Modifications.

  1.2. "Contributor Version" means the combination of the Original
  Software, prior Modifications used by a Contributor (if any), and
  the Modifications made by that particular Contributor.

  1.3. "Covered Software" means (a) the Original Software, or (b)

Modifications, or (c) the combination of files containing Original
Software with files containing Modifications, in each case including
portions thereof.

1.4. "Executable" means the Covered Software in any form other than
Source Code.

1.5. "Initial Developer" means the individual or entity that first
makes Original Software available under this License.

1.6. "Larger Work" means a work which combines Covered
Software or
portions thereof with code not governed by the terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the maximum
extent possible, whether at the time of the initial grant or
subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means the Source Code and Executable form of
any of the following:

A. Any file that results from an addition to, deletion from or
modification of the contents of a file containing Original Software
or previous Modifications;

B. Any new file that contains any part of the Original Software or
previous Modification; or

C. Any new file that is contributed or otherwise made available
under the terms of this License.

1.10. "Original Software" means the Source Code and Executable form
of computer software code that is originally released under this
License.

1.11. "Patent Claims" means
any patent claim(s), now owned or
hereafter acquired, including without limitation, method, process,
and apparatus claims, in any patent Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer software
code in which modifications are made and (b) associated
documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity
exercising rights under, and complying with all of the terms of,

this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned
upon Your compliance with Section 3.1 below and subject
to third party intellectual property claims, the Initial Developer
hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding
Section 2.1(b) above, no patent license is
granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify,

display, perform, sublicense and distribute the Modifications
created by such Contributor (or portions thereof), either on an
unmodified basis, with other Modifications, as Covered Software
and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling
of Modifications
made by that Contributor either alone and/or in
combination with its Contributor Version (or portions of such
combination), to make, use, sell, offer for sale, have made, and/or
otherwise dispose of: (1) Modifications made by that Contributor (or
portions thereof); and (2) the combination of Modifications made by
that Contributor with its Contributor Version (or portions of such
combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective
on the date Contributor first distributes or otherwise makes the
Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is
granted: (1) for any code that Contributor has deleted from the
Contributor Version; (2) for infringements caused by: (i) third
party modifications of Contributor Version, or (ii) the combination
of Modifications made by that Contributor with other software
(except as part of the Contributor
Version) or other devices; or (3)
under Patent Claims infringed by Covered Software in the absence of
Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available
in Executable form must also be made available in Source Code form
and that Source Code form must be distributed only under the terms
of this License. You must include a copy of this License with every
copy of the Source Code form of the Covered Software You distribute
or otherwise make available. You must inform recipients of any such
Covered Software in Executable form as to how they can obtain such
Covered Software in Source Code form in a reasonable manner on or
through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are
governed by the terms of this License. You represent

that You
believe Your Modifications are Your original creation(s) and/or You
have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that
identifies You as the Contributor of the Modification. You may not
remove or alter any copyright, patent or trademark notices contained
within the Covered Software, or any notices of licensing or any
descriptive text giving attribution to any Contributor or the
Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in
Source Code form that alters or restricts the applicable version of
this License or the recipients' rights hereunder. You may choose to
offer, and to charge a fee for, warranty, support, indemnity or
liability obligations to one or more recipients of Covered Software.
However, you may do so only on Your own behalf,
and not on behalf of
the Initial Developer or any Contributor. You must make it
absolutely clear that any such warranty, support, indemnity or
liability obligation is offered by You alone, and You hereby agree
to indemnify the Initial Developer and every Contributor for any
liability incurred by the Initial Developer or such Contributor as a
result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under
the terms of this License or under the terms of a license of Your
choice, which may contain terms different from this License,
provided that You are in compliance with the terms of this License
and that the license for the Executable form does not attempt to
limit or alter the recipient's rights in the Source Code form from
the rights set forth in this License. If You distribute the Covered
Software in Executable
form under a different license, You must make
it absolutely clear that any terms which differ from this License
are offered by You alone, not by the Initial Developer or
Contributor. You hereby agree to indemnify the Initial Developer and
every Contributor for any liability incurred by the Initial
Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software with
other code not governed by the terms of this License and distribute
the Larger Work as a single product. In such a case, You must make
sure the requirements of this License are fulfilled for the Covered
Software.

4. Versions of the License.

4.1. New Versions.

Oracle is the initial license steward and may publish revised and/or
new versions of this License from time to time. Each version will be
given a distinguishing version number. Except as provided in Section
4.3,
no one other than the license steward has the right to modify
this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the
Covered Software available under the terms of the version of the
License under which You originally received the Covered Software. If
the Initial Developer includes a notice in the Original Software
prohibiting it from being distributed or otherwise made available
under any subsequent version of the License, You must distribute and
make the Covered Software available under the terms of the version
of the License under which You originally received the Covered
Software. Otherwise, You may also choose to use, distribute or
otherwise make the Covered Software available under the terms of any
subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new
license
for Your Original Software, You may create and use a
modified version of this License if You: (a) rename the license and
remove any references to the name of the license steward (except to
note that the license differs from this License); and (b) otherwise
make it clear that the license contains terms which differ from this
License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS,
WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE
IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR

NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF
THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE
DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY
OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING,
REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES
AN
ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS
AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate
automatically if You fail to comply with terms herein and fail to
cure such breach within 30 days of becoming aware of the breach.
Provisions which, by their nature, must remain in effect beyond the
termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding
declaratory judgment actions) against Initial Developer or a
Contributor (the Initial Developer or Contributor against whom You
assert such claim is referred to as "Participant") alleging that the
Participant Software (meaning the Contributor Version where the
Participant is a Contributor or the Original Software where the
Participant is the Initial Developer) directly or indirectly
infringes any patent, then any and all rights
granted directly or
indirectly to You by such Participant, the Initial Developer (if the
Initial Developer is not the Participant) and all Contributors under
Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice
from Participant terminate prospectively and automatically at the
expiration of such 60 day notice period, unless if within such 60
day period You withdraw Your claim with respect to the Participant
Software against such Participant either unilaterally or pursuant to
a written agreement with Participant.

6.3. If You assert a patent infringement claim against Participant
alleging that the Participant Software directly or indirectly
infringes any patent where such claim is resolved (such as by
license or settlement) prior to the initiation of patent
infringement litigation, then the reasonable value of the licenses
granted by such Participant under Sections 2.1 or 2.2 shall be taken
into account in determining
the amount or value of any payment or
license.

6.4. In the event of termination under Sections 6.1 or 6.2 above,
all end user licenses that have been validly granted by You or any
distributor hereunder prior to termination (excluding licenses

granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
(INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE
TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER
FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE
POSSIBILITY OF SUCH DAMAGES. THIS
LIMITATION OF LIABILITY SHALL NOT
APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH
PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH
LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR
LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION
AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is defined
in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer
software" (as that term is defined at 48 C.F.R.
252.227-7014(a)(1)) and "commercial computer software documentation"
as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4
(June 1995), all U.S. Government End Users acquire Covered Software
with only those rights set forth herein. This U.S. Government Rights
clause is in lieu of, and supersedes, any other FAR,
DFAR, or other
clause or provision that addresses Government rights in computer
software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. This License shall be governed by
the law of the jurisdiction specified in a notice contained within
the Original Software (except to the extent applicable law, if any,
provides otherwise), excluding such jurisdiction's conflict-of-law
provisions. Any litigation relating to this License shall be subject
to the jurisdiction of the courts located in the jurisdiction and
venue specified in a notice contained within the Original Software,

with the losing party responsible for costs, including, without
limitation, court costs and reasonable attorneys' fees and expenses.
The application
of the United Nations Convention on Contracts for
the International Sale of Goods is expressly excluded. Any law or
regulation which provides that the language of a contract shall be
construed against the drafter shall not apply to this License. You
agree that You alone are responsible for compliance with the United
States export administration regulations (and the export control
laws and regulation of any other countries) when You use, distribute
or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is
responsible for claims and damages arising, directly or indirectly,
out of its utilization of rights under this License and You agree to
work with Initial Developer and Contributors to distribute such
responsibility on an equitable basis. Nothing herein is intended or
shall be deemed to constitute any admission of liability.

------------------------------------------------------------------------

NOTICE
PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the
State of California (excluding conflict-of-law provisions). Any
litigation relating to this License shall be subject to the jurisdiction
of the Federal Courts of the Northern District of California and the
state courts of the State of California, with venue lying in Santa Clara
County, California.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor
Boston, MA 02110-1335
USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom
 to share and change free software--to
make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you
 if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that
 redistributors of a free program will
individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a
notice placed by the copyright holder saying it may be distributed under
the terms of this General Public License. The "Program", below, refers
to any such program or work, and a "work based on the Program" means
either the Program or any derivative work under copyright law: that is
to say, a work containing the Program or a portion of it, either
verbatim or with modifications and/or translated into another language.
(Hereinafter, translation is included without limitation in the term
"modification".) Each licensee is addressed as "you".

Activities
 other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running
the Program is not restricted, and the output from the Program is
covered only if its contents constitute a work based on the Program
(independent of having been made by running the Program). Whether that
is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously
and appropriately publish on each copy an appropriate copyright notice
and disclaimer of warranty; keep intact all the notices that refer to
this License and to the absence of any warranty; and give any other
recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies
 of the Program or any portion of
it, thus forming a work based on the Program, and copy and distribute
such modifications or work under the terms of Section 1 above, provided
that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any part
  thereof, to be licensed as a whole at no charge to all third parties
  under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an

announcement including an appropriate copyright notice and a notice
that there is no warranty (or else, saying that you provide a
warranty) and that users may redistribute the
program under these
conditions, and telling the user how to view a copy of this License.
(Exception: if the Program itself is interactive but does not
normally print such an announcement, your work based on the Program
is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program, and
can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on
the Program, the distribution of the whole must be on the terms of this
License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by
 you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
storage or distribution medium does not bring the other work under the
scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections 1
  and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your cost
  of physically performing source distribution, a complete
   machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer to
  distribute corresponding source code. (This alternative is allowed
  only for noncommercial distribution and only if you received the

program in object code or executable form with such an offer, in
accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components
 (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

If distribution of executable or object code is made by offering access
to copy from a designated place, then offering equivalent access to copy
the source code from the same place counts as distribution of the source
code, even though third parties are not compelled to copy the source
along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt otherwise
to copy, modify, sublicense or distribute the Program is void, and will
automatically terminate your rights under this License. However, parties
who have received copies, or rights, from you under this License will
not have their licenses terminated so long as such parties remain in
full compliance.

5. You are not required to accept this License, since you have not
signed it. However, nothing
 else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and all
its terms and conditions for copying, distributing or modifying the
Program or works based on it.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further restrictions
on the recipients' exercise of the rights granted herein. You are not
responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether
 by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot distribute
so as to satisfy simultaneously your obligations under this License and
any other pertinent obligations, then as a consequence you may not
distribute the Program at all. For example, if a patent license would
not permit royalty-free redistribution of the Program by all those who
receive copies directly or indirectly through you, then the only way you
could satisfy both it and this License would be to refrain entirely from
distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims;
 this section has the sole purpose of protecting the
integrity of the free software distribution system, which is implemented
by public license practices. Many people have made generous
contributions to the wide range of software distributed through that
system in reliance on consistent application of that system; it is up to
the author/donor to decide if he or she is willing to distribute
software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be
a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License may
add an explicit geographical distribution limitation excluding those
countries, so that distribution is permitted only in or among countries
not thus excluded. In such case, this License incorporates the
limitation
 as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new
versions of the General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and

conditions either of that version or of any later version published by
the Free Software Foundation. If the Program does not specify a version
number of this License, you may choose any version ever published by the
Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the
author to ask for permission. For software which is copyrighted by the
Free Software Foundation, write to the
 Free Software Foundation; we
sometimes make exceptions for this. Our decision will be guided by the
two goals of preserving the free status of all derivatives of our free
software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND,
EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE
ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH
YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL
NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR
 REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL
DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM
(INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED
INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF
THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR
OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the

"copyright" line and a pointer
to where the full notice is found.

  One line to give the program's name and a brief idea of what it does.
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful, but
  WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program; if not, write to the Free Software
  Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1335 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output
 a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type
  `show w'. This is free software, and you are welcome to redistribute
  it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the commands
you use may be called something other than `show w' and `show c'; they
could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

  Yoyodyne, Inc., hereby disclaims all copyright interest in the
  program `Gnomovision' (which makes passes at compilers) written by
  James Hacker.

  signature of Ty Coon, 1 April 1989
  Ty
Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

#

Certain source files distributed by Oracle America, Inc. and/or its affiliates are subject to the following clarification and special exception to the GPLv2, based on the GNU Project exception for its Classpath libraries, known as the GNU Classpath Exception, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the LICENSE file that accompanied this code."

You should also note that Oracle includes multiple, independent programs in this software package. Some of those programs are provided under
 licenses deemed incompatible with the GPLv2 by the Free Software Foundation and others.  For example, the package includes programs licensed under the Apache License, Version 2.0.  Such programs are licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the Classpath Exception to the necessary parts of its GPLv2 code, which permits you to use that code in combination with other independent modules not licensed under the GPLv2.  However, note that this would not permit you to commingle code under an incompatible license with Oracle's GPLv2 licensed code by, for example, cutting and pasting such code into a file also containing Oracle's GPLv2 licensed code and then distributing the result.  Additionally, if you were to remove the Classpath Exception from any of the files to which it applies and distribute the result, you would likely be required to license some or all of the other code in that distribution under the
 GPLv2 as well, and
since the GPLv2 is incompatible with the license terms of some items included in the distribution by Oracle, removing the Classpath Exception could therefore effectively compromise your ability to further distribute the package.

Proceed with caution and we recommend that you obtain the advice of a lawyer skilled in open source matters before removing the Classpath Exception or making modifications to this package which may subsequently be redistributed and/or involve the use of third party software.

CLASSPATH EXCEPTION
Linking this library statically or dynamically with other modules is
making a combined work based on this library.  Thus, the terms and
conditions of the GNU General Public License version 2 cover the whole
combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent
modules, and to copy and
 distribute the resulting executable under
terms of your choice, provided that you also meet, for each linked
independent module, the terms and conditions of the license of that
module.  An independent module is a module which is not derived from or
based on this library.  If you modify this library, you may extend this
exception to your version of the library, but you are not obligated to
do so.  If you do not wish to do so, delete this exception statement
from your version.

--------------------
The Fakeload library

MIT License

Copyright (c) 2017 Marten Sigwart

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation files
(the "Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the following conditions:

The
 above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

# 1.346 libpkit 0.24.1-r2

## 1.346.1 Available under license :

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above
  copyright notice, this list of conditions and the
  following disclaimer.
* Redistributions in binary form must reproduce the
  above copyright notice, this list of conditions and
  the following disclaimer in the documentation and/or
  other materials provided with the distribution.
* The names of contributors to this software may not be
  used to endorse or promote products derived from this
  software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
 ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

# 1.347 openjdk17-jre 17.0.8_p7-r0

## 1.347.1 Available under license :

## c-libutl 20160225

### c-libutl License
```

This software is distributed under the terms of the BSD license.

== BSD LICENSE ==

(C) 2009 by Remo Dentato (rdentato@gmail.com)

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright notice,
    this list of conditions and the following disclaimer in the documentation
    and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT
 SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

http://opensource.org/licenses/bsd-license.php

```

## zlib v1.2.11

### zlib License
<pre>

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

```
Jean-loup Gailly   Mark Adler
jloup@gzip.org   madler@alumni.caltech.edu
```

</pre>
## Harfbuzz v2.7.2

### Harfbuzz License

https://github.com/harfbuzz/harfbuzz/blob/master/COPYING

<pre>

HarfBuzz is licensed under the so-called "Old MIT" license.  Details follow.
For parts of HarfBuzz that are licensed under different licenses see individual
files names COPYING in subdirectories where applicable.

Copyright  2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020  Google, Inc.
Copyright  2018,2019,2020  Ebrahim Byagowi
Copyright  2019,2020  Facebook, Inc.
Copyright  2012  Mozilla Foundation
Copyright  2011  Codethink Limited
Copyright  2008,2010  Nokia Corporation and/or its subsidiary(-ies)
Copyright  2009  Keith Stribley
Copyright  2009  Martin Hosken and SIL International
Copyright  2007  Chris Wilson
Copyright  2006  Behdad Esfahbod
Copyright  2005  David Turner
Copyright  2004,2007,2008,2009,2010  Red Hat, Inc.
Copyright  1998-2004  David Turner and Werner Lemberg

For full copyright notices consult the individual files in the package.


Permission is hereby granted,
 without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND

FITNESS FOR A PARTICULAR PURPOSE.  THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

All source code, except for one section, is licensed as above. The one
exception is licensed with a slightly
 different MIT variant:
The contents of this directory are licensed under the following terms:

Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

</pre>
Copyright (c) 1999-2003 David Corcoran <corcoran@musclecard.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN
 NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


Some files are under GNU GPL v3 or any later version
- doc/example/pcsc_demo.c
- the files in src/spy/
- the files in UnitaryTests/

  Copyright (C) 2003-2014  Ludovic Rousseau

  This program is free software: you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation, either version 3 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program.  If not, see <http://www.gnu.org/licenses/>.


Files src/auth.c and src/auth.h are:
* Copyright (C) 2013 Red Hat
*
* All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
 * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
* FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
* COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
* BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS

## xwd v1.0.7

### xwd utility
<pre>

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:
list.h, multiVis.h, wsutils.h, list.c, multiVis.c

OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

</pre>
## IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

### IAIK License
<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
   include the following acknowledgment:

   "This product includes software developed by IAIK of Graz University of
    Technology."

   Alternately, this acknowledgment may appear in the software itself, if and
    wherever such third-party
   acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of
   Technology" must not be used to endorse or promote products derived from this
   software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper",
   nor may "IAIK" appear in their name, without prior written permission of
   Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND

FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## CUP Parser Generator for Java v 0.11b

### CUP Parser Generator License
<pre>

Copyright 1996-2015 by Scott Hudson, Frank Flannery, C. Scott Ananian, Michael Petter

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both
the copyright notice and this permission notice and warranty disclaimer
appear in supporting documentation, and that the names of the authors or
their employers not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits,
 whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.

</pre>
The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT
 OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
## The Unicode Standard, Unicode Character Database, Version 13.0.0

### Unicode Character Database
```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the
 "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## jQuery UI v1.12.1

### jQuery UI License
```
Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code contained within the demos directory.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

```
This is the copyright file
UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation
 the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated

Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA
 FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.
jpackage test license file (just some sample text).
## Eastman Kodak Company: Portions of color management and imaging software

### Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
## Thai Dictionary

### Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

</pre>
## Apache Xerces v2.12.1

### Apache Xerces Notice
<pre>
  =========================================================================
  == NOTICE file corresponding to section 4(d) of the Apache License,   ==
  == Version 2.0, in this case for the Apache Xerces Java distribution.  ==
  =========================================================================

  Apache Xerces Java
  Copyright 1999-2020 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

  Portions of this software were originally based on the following:
   - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
   - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
   - voluntary contributions made by Paul Eng on behalf of the
  Apache Software Foundation that were originally developed at iClick, Inc.,
  software copyright (c) 1999.
</pre>

### Apache 2.0 License
<pre>


                        Apache License
                  Version 2.0, January 2004
                http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean
an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work
of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work,

but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make,
have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients
of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of

the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with
the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any
Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of

TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such
damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should
be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
## The FreeType Project: Freetype v2.10.2


### FreeType Notice

```

FreeType comes with two licenses from which you can choose the one
which fits your needs best.

   The FreeType License (FTL) is the most commonly used one. It is
   a BSD-style license with a credit clause and thus compatible with
   the GNU Public License (GPL) version 3, but not with the
   GPL version 2.

   The GNU General Public License (GPL), version 2. Use it for all
   projects which use the GPLv2 also, or which need a license
   compatible to the GPLv2.

```


### FreeType License
```
                The FreeType Project LICENSE

                    2006-Jan-27

            Copyright 1996-2002, 2006 by
       David Turner, Robert Wilhelm, and Werner Lemberg

Introduction
============

 The FreeType Project is distributed in several archive packages;
 some of them may contain, in addition to the FreeType font engine,
 various tools

and contributions which rely on, or relate to, the
FreeType Project.

This license applies to all files found in such packages, and
which do not fall under their own explicit license. The license
affects thus the FreeType font engine, the test programs,
documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG
(Independent JPEG Group) licenses, which all encourage inclusion
and use of free software in commercial and freeware products
alike. As a consequence, its main points are that:

  o We don't promise that this software works. However, we will be
    interested in any kind of bug reports. (`as is' distribution)

  o You can use this software for whatever you want, in parts or
    full form, without having to pay us. (`royalty-free' usage)

  o You may not pretend that you wrote this software. If you use
    it, or only parts of it, in a program, you must acknowledge
     somewhere in your documentation that you have used the
    FreeType code. (`credits')

We specifically permit and encourage the inclusion of this
software, with or without modifications, in commercial products.
We disclaim all warranties covering The FreeType Project and
assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a
credit/disclaimer to use in compliance with this license. We thus
encourage you to use the following text:

  """
  Portions of this software are copyright <year> The FreeType
  Project (www.freetype.org). All rights reserved.
  """

Please replace <year> with the value from the FreeType version you
actually use.

Legal Terms
===========

0. Definitions

Throughout this license, the terms `package', `FreeType Project',
and `FreeType archive' refer to the set of files originally
distributed by the authors
 (David Turner, Robert Wilhelm, and
Werner Lemberg) as the `FreeType Project', be they named as alpha,
beta or final release.

`You' refers to the licensee, or person using the project, where
`using' is a generic term including compiling the project's source
code as well as linking it to form a `program' or `executable'.
This program is referred to as `a program using the FreeType
engine'.

This license applies to all files distributed in the original
FreeType Project, including all source code, binaries and
documentation, unless otherwise stated in the file in its
original, unmodified form as distributed in the original archive.
If you are unsure whether or not a particular file is covered by
this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner,
Robert Wilhelm, and Werner Lemberg. All rights reserved except as
specified below.

1. No Warranty

 THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO
USE, OF THE FREETYPE PROJECT.

2. Redistribution

This license grants a worldwide, royalty-free, perpetual and
irrevocable right and license to use, execute, perform, compile,
display, copy, create derivative works of, distribute and
sublicense the FreeType Project (in both source and object code
forms) and derivative works thereof for any purpose; and to
authorize others to exercise some or all of the rights granted
herein, subject to the following conditions:

 o Redistribution of source code must retain this license file
   (`FTL.TXT') unaltered; any additions,

deletions or changes to
   the original files must be clearly indicated in accompanying
   documentation. The copyright notices of the unaltered,
   original files must be preserved in all copies of source
   files.

   o Redistribution in binary form must provide a disclaimer that
     states that the software is based in part of the work of the
     FreeType Team, in the distribution documentation. We also
     encourage you to put an URL to the FreeType web page in your
     documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on
the FreeType Project, not just the unmodified files. If you use
our work, you must acknowledge us. However, no fee need be paid
to us.

3. Advertising

Neither the FreeType authors and contributors nor you shall use
the name of the other for commercial, advertising, or promotional
purposes without specific prior written
permission.

We suggest, but do not require, that you use one or more of the
following phrases to refer to this software in your documentation
or advertising materials: `FreeType Project', `FreeType Engine',
`FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to
accept it. However, as the FreeType Project is copyrighted
material, only this license, or another one contracted with the
authors, grants you the right to use, distribute, and modify it.
Therefore, by using, distributing, or modifying the FreeType
Project, you indicate that you understand and accept all the terms
of this license.

4. Contacts

There are two mailing lists related to FreeType:

 o freetype@nongnu.org

   Discusses general use and applications of FreeType, as well as
   future and wanted additions to the library and distribution.
   If you are looking for support, start in

this list if you
   haven't found anything to help you in the documentation.

  o freetype-devel@nongnu.org

   Discusses bugs, as well as engine internals, design issues,
   specific licenses, porting, etc.

 Our home page can be found at

  http://www.freetype.org

```


### GPL v2

```
   GNU GENERAL PUBLIC LICENSE
      Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
   51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

     Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other
 program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you

distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all
 the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent
 must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

    GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The
 act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the

Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or
work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program
itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on
 the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above
on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself
 accompanies the executable.

If distribution of executable or object code is made by offering

access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited
 by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
 you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other

circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution
 system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish
 revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be
 guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING
ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to
give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive
 mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not
 permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

##

--- fthash.c and fthash.h are covered by the following notices ---

/*
* Copyright 2000 Computing Research Labs, New Mexico State University
* Copyright 2001-2015
*   Francesco Zappa Nardelli

otherwise transfer the Work, where such license applies only to those
patent claims licensable by such contributor that are necessarily
infringed by their contribution(s) alone
 or by combination of their
contribution(s) with the Work to which such contribution(s) was
submitted. If You institute patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that
the Work or a contribution incorporated within the Work constitutes
direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of
the date such litigation is filed.

By using, modifying, or distributing the Work you indicate that you
have read and understood the terms and conditions of the
FreeType Project License as well as those provided in this section,
and you accept them fully.

##

```

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Files: *
Copyright: APPLICATION_COPYRIGHT
License: APPLICATION_LICENSE_TEXT
                ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are
subject to the following clarification and special exception to the GPLv2,
based on the GNU Project exception for its Classpath libraries, known as the
GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software
package.  Some of those programs are provided under licenses deemed
incompatible with the GPLv2 by the Free Software Foundation and others.
For example, the package includes programs licensed under the Apache
License, Version 2.0 and may include FreeType. Such programs are licensed
to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the
Classpath Exception to the necessary parts of its GPLv2 code, which permits
you to use that code in combination with other independent modules not
licensed under the GPLv2. However, note that this would
 not permit you to
commingle code under an incompatible license with Oracle's GPLv2 licensed
code by, for example, cutting and pasting such code into a file also
containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the
files to which it applies and distribute the result, you would likely be
required to license some or all of the other code in that distribution under
the GPLv2 as well, and since the GPLv2 is incompatible with the license terms
of some items included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to further
distribute the package.

Failing to distribute notices associated with some files may also create
unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer
skilled in open source matters before removing the Classpath Exception or
making modifications
 to this package which may subsequently be redistributed
and/or involve the use of third party software.
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.  Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact
 Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
## OASIS PKCS #11 Cryptographic Token Interface v3.0

### OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright  OASIS Open 2020. All Rights Reserved.

   All capitalized terms in the following text have the meanings
assigned to them in the OASIS Intellectual Property Rights Policy (the

"OASIS IPR Policy"). The full Policy may be found at the OASIS website: [http://www.oasis-open.org/policies-guidelines/ipr]

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to OASIS, except as needed for the purpose of developing any
 document or deliverable produced by an OASIS Technical Committee (in which case the rules applicable to copyrights, as set forth in the OASIS IPR Policy, must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY PART THEREOF.

[OASIS requests that any OASIS Party or any other party that believes it has patent claims that would necessarily be infringed by implementations
 of this OASIS Standards Final Deliverable, to notify OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this deliverable.]

[OASIS invites any party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this OASIS Standards Final Deliverable by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this OASIS Standards Final Deliverable. OASIS may include such claims on its website, but disclaims any obligation to do so.]

[OASIS takes no position regarding the validity or scope of any

intellectual property or other rights that might be claimed to pertain
to the implementation or use of the technology
 described in this OASIS
Standards Final Deliverable or the extent to which any license under
such rights might or might not be available; neither does it represent
that it has made any effort to identify any such rights. Information on
OASIS' procedures with respect to rights in any document or deliverable
produced by an OASIS Technical Committee can be found on the OASIS
website. Copies of claims of rights made available for publication and
any assurances of licenses to be made available, or the result of an
attempt made to obtain a general license or permission for the use of
such proprietary rights by implementers or users of this OASIS Standards
Final Deliverable, can be obtained from the OASIS TC Administrator.
OASIS makes no representation that any information or list of
intellectual property rights will at any time be complete, or that any
claims in such list are, in fact, Essential Claims.]

</pre>
## Mesa 3-D Graphics Library v19.2.1

### Mesa License

```

Copyright (C) 1999-2007 Brian Paul   All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN
 ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Attention, Contributors

When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.

The following section lists the primary components of the Mesa distribution
and their respective licenses.
Mesa Component Licenses

Component   Location   License

Main Mesa code   src/mesa/   MIT
Device drivers   src/mesa/drivers/*   MIT, generally

Gallium code   src/gallium/   MIT

Ext headers   GL/glext.h   Khronos
          GL/glxext.h   Khronos
          GL/wglext.h   Khronos
          KHR/khrplatform.h   Khronos

****

----
include/GL/gl.h :

Mesa 3-D
 graphics library

Copyright (C) 1999-2006 Brian Paul   All Rights Reserved.
Copyright (C) 2009 VMware, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

****

----
include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

Copyright (c) 2013 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

----
include/KHR/khrplatform.h :

Copyright (c) 2008 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do
 so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

```

## Cryptix AES v3.2.0

### Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

 1. Redistributions of source code must retain the copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## PC/SC Lite v1.8.26

### PC/SC Lite License
<pre>

Copyright (c) 1999-2003 David Corcoran <corcoran@linuxnet.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

Changes to this license can be made only by the copyright author with
explicit written consent.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
 OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## jopt-simple v5.0.4

### MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS

OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL

THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR

OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR

 OTHERWISE,

ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR

OTHER DEALINGS IN THE SOFTWARE.

</pre>
## Apache Xalan v2.7.2

### Apache Xalan Notice
<pre>

========================================================================================
====
  ==  NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==
  ==  in this case for the Apache Xalan distribution.                    ==
========================================================================================
====

  This product includes software developed by
  The Apache Software Foundation (http://www.apache.org/).

  Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
  The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
  compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
  the source from the packages that are part of the XSLTC sources.

  Portions of this software was originally based on the following:

   - software copyright (c) 1999-2002, Lotus Development Corporation.,
 http://www.lotus.com.
   - software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
   - software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
   - voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
     Apache Software Foundation and was originally developed at Hewlett Packard Company.

</pre>

### Apache 2.0 License
<pre>

                    Apache License
               Version 2.0, January 2004
              http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control,
    are controlled by, or are under common
     control with that entity. For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

     "Source" form shall mean the preferred form for making modifications,
     including but not limited to software source code, documentation
     source, and configuration files.

     "Object" form shall mean any form resulting from mechanical
     transformation or translation of a Source form, including but
     not limited to compiled object code, generated documentation,
     and conversions to other media types.

     "Work" shall mean the work of authorship, whether in Source or
     Object form, made
    available under the License, as indicated by a
     copyright notice that is included in or attached to the work
     (an example is provided in the Appendix below).

     "Derivative Works" shall mean any work, whether in Source or Object
     form, that is based on (or derived from) the Work and for which the
     editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright
owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare
Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement,
then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative
Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement
to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing
the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including
any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted
against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to
 in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability
 and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>

## Apache Santuario v2.1.4

### Apache Santuario Notice
<pre>

 Apache Santuario - XML Security for Java
 Copyright 1999-2019 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).

 It was originally based on software copyright (c) 2001, Institute for
 Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

 The development of this software was partly funded by the European
 Commission in the <WebSig> project in the ISIS Programme.


</pre>

### Apache 2.0 License
<pre>

                    Apache License
               Version 2.0, January 2004
             http://www.apache.org/licenses/


TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity
 authorized by
  the copyright owner that is granting the License.

  "Legal Entity" shall mean the union of the acting entity and all
  other entities that control, are controlled by, or are under common
  control with that entity. For the purposes of this definition,
  "control" means (i) the power, direct or indirect, to cause the
  direction or management of such entity, whether by contract or
  otherwise, or (ii) ownership of fifty percent (50%) or more of the
  outstanding shares, or (iii) beneficial ownership of such entity.

  "You" (or "Your") shall mean an individual or Legal Entity
  exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object
code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
 submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this
 License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a

   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that
   do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from
the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not
grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless
required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on
   behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!)  The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except
 in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
## JLine v3.14.0

### JLine License
<pre>

## Little Color Management System (LCMS) v2.11

### LCMS License
<pre>

Little Color Management System

the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO
THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>
## DOM Level 3 Core Specification v1.0

### W3C License
<pre>

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee)
agree that you have read, understood, and will comply with the following terms
and conditions.

Permission to copy, modify, and distribute this software and its
documentation, with or without modification, for any purpose and without fee
or royalty is hereby granted, provided that you include the following on ALL
copies of the software and documentation or portions thereof, including
modifications:

  1.The full text of this NOTICE in a location viewable to users of the
  redistributed or derivative work.

  2.Any pre-existing intellectual property disclaimers, notices, or terms and
  conditions. If
 none exist, the W3C Software Short Notice should be included
  (hypertext is preferred, text is permitted) within the body of any
  redistributed or derivative code.

  3.Notice of any changes or modifications to the files, including the date

changes were made. (We recommend you provide URIs to the location from
 which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS
MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR
PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY
THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL
OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR
DOCUMENTATION.  The name and trademarks of copyright holders may NOT be used
in advertising or publicity pertaining to the software without specific,
written
 prior permission. Title to copyright in this software and any
associated documentation will at all times remain with copyright holders.

_____

This formulation of W3C's notice and license became active on December 31
2002. This version removes the copyright ownership notice such that this
license can be used with materials other than those owned by the W3C, reflects
that ERCIM is now a host of the W3C, includes references to this specific
dated version of the license, and removes the ambiguous grant of "use".
Otherwise, this version is the same as the previous version and is written so
as to preserve the Free Software Foundation's assessment of GPL compatibility
and OSI's certification under the Open Source Definition. Please see our
Copyright FAQ for common questions about using materials from our site,
including specific terms and conditions for packages like libwww, Amaya, and
Jigsaw. Other questions about this notice can be directed to
site-policy@w3.org.

</pre>
## jQuery v3.5.1

### jQuery License
```
jQuery v 3.5.1
Copyright JS Foundation and other contributors, https://js.foundation/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
 IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

****

The jQuery JavaScript Library v3.5.1 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to
 whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

****

```

All images in this directory are copyright 1995 by Jeff Dinkins.
COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2
---------------------------------------

* Copyright (c) 1995-2019 The PNG Reference Library Authors.
* Copyright (c) 2018-2019 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted
 to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.


PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
-----------------------------------------------------------------------

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer
 and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

  Simon-Pierre Cadieux
  Eric S. Raymond
  Mans Rullgard
  Cosmin Truta
  Gilles Vollant
  James Yu
  Mandar Sahastrabuddhe
  Google Inc.
  Vadim Barkov

and with the following additions to the disclaimer:

  There is no warranty against interference with your enjoyment of
  the library or against infringement.  There is no warranty that our
  efforts or the library will fulfill any of your particular purposes
  or needs.  This library is provided with all faults, and the entire
  risk of satisfactory quality, performance, accuracy, and effort is
  with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson,
 are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

  Tom Lane
  Glenn Randers-Pehrson
  Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

  John Bowler
  Kevin Bracey
  Sam Bushell
  Magnus Holmgren
  Greg Roelofs
  Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

   Andreas Dilger
  Dave Martindale
  Guy Eric Schalnat
  Paul Schmidt
  Tim Wegner

The PNG Reference Library is supplied "AS IS".  The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose.  The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
   be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from

any

 source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products.  If you use
this source code in a product, acknowledgment is not required but would
be appreciated.
## GIFLIB v5.2.1

### GIFLIB License
```

The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

https://sourceforge.net/p/giflib/code/ci/master/tree/openbsd-reallocarray.c

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>
SPDX-License-Identifier: MIT
Unicode Common Local Data Repository (CLDR) v38

CLDR License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s

Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal
 in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION,
 ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

------------------------------------------------------------ Terms of Use ------------------------------------------------------------

-

Unicode Copyright and Terms of Use
For the general privacy policy governing access to this site, see the  Unicode Privacy Policy.

Unicode Copyright
Copyright  1991-2020 Unicode, Inc. All rights reserved.
Definitions
Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:
https://www.unicode.org/Public/

Unicode
 Software ("SOFTWARE") includes any source code published in the Unicode Standard
or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/
Terms of Use
Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person
is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the
Unicode Standard, subject to Terms and Conditions herein.
Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject
to the Terms and Conditions herein.
Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE
can be found in the Unicode Data Files and Software License.
Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book
editions
 (Unicode 5.0 and earlier), these are found on the back of the title page.
The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page
of each PDF code chart.
All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under
these general Terms of Use.
No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.
Modification is not permitted with respect to this document. All copies of this document must be verbatim.
Restricted Rights Legend
Any technical data or software which is licensed to the United States of America, its agencies and/or
instrumentalities under this Agreement is commercial technical data or commercial computer software developed
exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For
technical data, use, duplication, or disclosure by the Government
 is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995)
and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use,
duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.
Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR

SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and

damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire

Agreement. This Agreement constitutes the entire agreement between the parties.

```

All images in this directory are copyright 1995 by Jeff Dinkins.
Unauthorized reproduction is prohibited.

For more information about Jeff's photographs, please see:
    http://www.theFixx.org/Jeff
libpng v1.6.37

libpng License
<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
===

PNG Reference Library License version 2
----

* Copyright (c) 1995-2019 The PNG Reference Library Authors.
* Copyright (c) 2018-2019 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement. In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of
 such damage.

Permission is hereby granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software. If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)

----

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and
 are distributed according to the same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of
   the library or against infringement. There is no warranty that our
   efforts or the library will fulfill any of your particular purposes
   or needs. This library is provided with all faults, and the entire
   risk of satisfactory quality, performance, accuracy, and effort is
   with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20,
 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

   Tom Lane
   Glenn Randers-Pehrson
   Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,

and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

  John Bowler
  Kevin Bracey
  Sam Bushell
  Magnus Holmgren
  Greg Roelofs
  Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined
 as the following set of individuals:

  Andreas Dilger
  Dave Martindale
  Guy Eric Schalnat
  Paul Schmidt
  Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
   be misrepresented as being the original source.

3. This Copyright
 notice may not be removed or altered from any
   source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.

</pre>
The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share
and change it. By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users. This General Public License applies to
most of the Free Software Foundation's software and to any other program whose
authors commit to using it. (Some other Free Software Foundation software is
covered by the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
General Public Licenses are designed to make sure that
 you have the freedom to
distribute copies of free software (and charge for this service if you wish),
that you receive source code or can get it if you want it, that you can change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny
you these rights or to ask you to surrender the rights. These restrictions
translate to certain responsibilities for you if you distribute copies of the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for
a fee, you must give the recipients all the rights that you have. You must
make sure that they, too, receive or can get the source code. And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)

offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also,
 for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be
 distributed under the terms of
this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided
 that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus
forming a work based on the Program, and copy and distribute such modifications
or work under the terms of Section 1 above, provided that you also meet all of
these conditions:

   a) You must cause the modified files to carry prominent notices stating
   that you changed the files and the date of any change.

   b) You must cause any work that you distribute or publish, that in whole or
   in part contains or is derived from the Program or any part thereof, to
be
   licensed as a whole at no charge to all third parties under the terms of
   this License.

   c) If the modified program normally reads commands interactively when run,
   you must cause it, when started running for such interactive use in the
   most ordinary way, to print or display an announcement including an
   appropriate copyright notice and a notice that there is no warranty (or
   else, saying that you provide a warranty) and that users may redistribute
   the program under these conditions, and telling the user how to view a copy
   of this License. (Exception: if the Program itself is interactive but does
   not normally print such an announcement, your work based on the Program is
   not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable
sections of that work are not derived from the Program, and can be reasonably
considered independent and separate works in themselves, then this License, and
its
 terms, do not apply to those sections when you distribute them as separate
works. But when you distribute the same sections as part of a whole which is a
work based on the Program, the distribution of the whole must be on the terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with the
Program (or with a work based on the Program) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of Sections

1 and
2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable source
  code, which must be distributed under the terms of Sections 1 and 2 above
  on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three years, to
  give any third party, for a charge no more than your cost of physically
  performing source distribution, a complete machine-readable copy of the
  corresponding source code, to be distributed under the terms of Sections 1
  and 2 above on a medium customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer to
  distribute corresponding source code. (This alternative is allowed only
  for noncommercial distribution and only if you received the program in
  object code or executable form with such an offer, in accord with
  Subsection b above.)

The source
 code for a work means the preferred form of the work for making
modifications to it. For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and installation
of the executable. However, as a special exception, the source code
distributed need not include anything that is normally distributed (in either
source or binary form) with the major components (compiler, kernel, and so on)
of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even though
third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute
 the Program except as
expressly provided under this License. Any attempt otherwise to copy, modify,
sublicense or distribute the Program is void, and will automatically terminate
your rights under this License. However, parties who have received copies, or
rights, from you under this License will not have their licenses terminated so
long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it.
However, nothing else grants you permission to modify or distribute the Program
or its derivative works. These actions are prohibited by law if you do not
accept this License. Therefore, by modifying or distributing the Program (or
any work based on the Program), you indicate your acceptance of this License to

do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically
 receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you,
 then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make
 thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body

of this License.

9. The Free Software Foundation may publish revised and/or new versions of the
General Public License from time to time. Such new versions will be similar in
spirit to the present version, but may differ in detail to address new problems
or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any later
version", you have the option of following the
 terms and conditions either of
that version or of any later version published by the Free Software Foundation.
If the Program does not specify a version number of this License, you may
choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission. For software which is copyrighted by the Free Software Foundation,
write to the Free Software Foundation; we sometimes make exceptions for this.
Our decision will be guided by the two goals of preserving the free status of
all derivatives of our free software and of promoting the sharing and reuse of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS"
 WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How

to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach
them to the start of each source file to most effectively convey the exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

    One line to give the program's name and a brief idea of what it does.

    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify it
    under the terms of the GNU General Public License as published by the Free
    Software Foundation; either version 2 of the License, or (at your option)
    any later version.

    This program is distributed in the hope that it will be useful, but WITHOUT
     ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
    FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
    more details.

    You should have received a copy of the GNU General Public License along
    with this program; if not, write to the Free Software Foundation, Inc.,
    51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it
starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
    with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free
    software, and you are welcome to redistribute it under certain conditions;
    type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be
called something
 other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school,
if any, to sign a "copyright disclaimer" for the program, if necessary. Here
is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General Public
License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following
 clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's header
the words "Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this code."

  Linking this library statically or dynamically with other modules is making
  a combined work based on this library. Thus, the terms and conditions of
  the GNU General Public License cover the whole combination.

  As a special exception, the copyright holders of this library give you
  permission to link this library with independent modules to produce an
  executable, regardless of the license terms of these independent modules,
  and to copy and distribute the resulting executable under terms of your
  choice, provided that you also meet, for each linked independent module,
  the terms and conditions of the license of that module. An independent
  module is a module
 which is not derived from or based on this library. If
  you modify this library, you may extend this exception to your version of
  the library, but you are not obligated to do so. If you do not wish to do
  so, delete this exception statement from your version.
ASM Bytecode Manipulation Framework v8.0.1

ASM License
<pre>

Copyright (c) 2000-2011 France Tlcom
All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

 - Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 - Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

 - Neither the name of Oracle nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE ARE DISCLAIMED. IN NO
 EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Dynalink v.5

Dynalink License
<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT SHALL COPYRIGHT HOLDER
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
Independent JPEG Group: JPEG release 6b

JPEG License

```
*************************************************************************

Copyright (C) 1991-1998, Thomas G. Lane.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose.  This software is provided "AS IS",
and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute
this software (or portions thereof) for any purpose,
 without fee,
subject to these conditions:

(1) If any part of the source code for this software is distributed,
then this README file must be included, with this copyright and no-warranty
notice unaltered; and any additions, deletions, or changes to the original
files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation
must state that "this software is based in part on the work of the
Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library.  If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products
 derived
from it.  This software may be referred to only as "the Independent JPEG
Group's software".

We specifically permit and encourage the use of this software as the basis
of commercial products, provided that all warranty or liability claims are

assumed by the product vendor.

It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi.  Hence arithmetic coding
cannot legally be used without obtaining one or more licenses.  For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the
 GIF writer has been simplified to
produce "uncompressed GIFs".  This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated.  GIF(sm) is a
Service Mark property of CompuServe Incorporated."

**************************************************************************
```

International Components for Unicode (ICU4J) v67.1

ICU4J License
```

COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright  1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED
 "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

---------------------

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software
 components included within ICU
libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
 AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR

HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

All trademarks and registered trademarks mentioned herein are the property of their respective owners.

From: https://www.unicode.org/copyright.html:

 Unicode Copyright and Terms of Use

 For the general privacy policy governing access to this site, see the  Unicode Privacy Policy.

  Unicode Copyright
    Copyright  1991-2020
 Unicode, Inc. All rights reserved.
  Definitions

  Unicode Data Files ("DATA FILES") include all data files under the directories:
  https://www.unicode.org/Public/
  https://www.unicode.org/reports/
  https://www.unicode.org/ivd/data/

  Unicode Data Files do not include PDF online code charts under the directory:
  https://www.unicode.org/Public/

  Unicode Software ("SOFTWARE") includes any source code published in the Unicode Standard
  or any source code or compiled code under the directories:
  https://www.unicode.org/Public/PROGRAMS/
  https://www.unicode.org/Public/cldr/
  http://site.icu-project.org/download/

  Terms of Use
    Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the Unicode Standard, subject to Terms

and Conditions herein.

Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject to the Terms and Conditions herein.

Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE can be found in the Unicode Data Files and Software License.

Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions (Unicode 5.0 and earlier), these are found on the back of the title page.

The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy)

are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability.  If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire Agreement. This Agreement constitutes the entire agreement between the parties.


```

Mozilla Public Suffix List

Public Suffix Notice
```

You are receiving a copy of the Mozilla Public Suffix List in the following
file: <java-home>/lib/security/public_suffix_list.dat. The terms of the
Oracle license do NOT apply to this file; it is licensed under the
Mozilla Public License 2.0, separately from the Oracle programs you receive.
If you do not wish to use the Public Suffix List, you may remove the
<java-home>/lib/security/public_suffix_list.dat file.

The Source Code of this file is available under the
Mozilla Public License, v. 2.0 and is located at
https://raw.githubusercontent.com/publicsuffix/list/cbbba1d234670453df9c930dfbf510c0474d4301/public_suffix_list.dat.
If a copy of the MPL was not distributed with this file, you can obtain one
at https://mozilla.org/MPL/2.0/.

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations
 under the License.
```

MPL v2.0
```

Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
    means each individual or legal entity that creates, contributes to
    the creation of, or owns Covered Software.

1.2. "Contributor Version"
    means the combination of the Contributions of others (if any) used
    by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
    means Covered Software of a particular Contributor.

1.4. "Covered Software"
    means Source Code Form to which the initial Contributor has attached
    the notice in Exhibit A, the Executable Form of such Source Code
    Form, and Modifications of such Source Code Form, in each case
    including portions thereof.

1.5. "Incompatible With Secondary Licenses"
    means

    (a) that the initial Contributor has attached the notice described
        in Exhibit B to the Covered Software; or

    (b) that the Covered
 Software was made available under the terms of
        version 1.1 or earlier of the License, but not also under the
        terms of a Secondary License.

1.6. "Executable Form"
    means any form of the work other than Source Code Form.

1.7. "Larger Work"
    means a work that combines Covered Software with other material, in
    a separate file or files, that is not Covered Software.

1.8. "License"
    means this document.

1.9. "Licensable"
    means having the right to grant, to the maximum extent possible,
    whether at the time of the initial grant or subsequently, any and
    all of the rights conveyed by this License.

1.10. "Modifications"
   means any of the following:

   (a) any file in Source Code Form that results from an addition to,
       deletion from, or modification of the contents of Covered
       Software; or

   (b) any new file in Source Code Form that contains any Covered
       Software.

1.11. "Patent Claims" of a Contributor
   means any patent
 claim(s), including without limitation, method,
   process, and apparatus claims, in any patent Licensable by such
   Contributor that would be infringed, but for the grant of the
   License, by the making, using, selling, offering for sale, having
   made, import, or transfer of either its Contributions or its
   Contributor Version.

1.12. "Secondary License"
   means either the GNU General Public License, Version 2.0, the GNU
   Lesser General Public License, Version 2.1, the GNU Affero General
   Public License, Version 3.0, or any later versions of those
   licenses.

1.13. "Source Code Form"
   means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
   means an individual or a legal entity exercising rights under this
   License. For legal entities, "You" includes any entity that
   controls, is controlled by, or is under common control with You. For
   purposes of this definition, "control" means (a) the power, direct
   or indirect,
 to cause the direction or management of such entity,
   whether by contract or otherwise, or (b) ownership of more than
   fifty percent (50%) of the outstanding shares or beneficial
   ownership of such entity.

2. License Grants and Conditions
-------------------------------

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
   Licensable by such Contributor to use, reproduce, make available,
   modify, display, perform, distribute, and otherwise exploit its
   Contributions, either on an unmodified basis, with Modifications, or
   as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
   for sale, have made, import, and otherwise transfer either its
   Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for
 each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
   or

(b) for infringements caused by: (i) Your and any other third party's
   modifications of Covered Software, or (ii) the combination of its
   Contributions with other software (except as part of its Contributor
   Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
   its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section
 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities
-------------------

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms
 of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this
License, and how they can obtain a copy of this License. You may not
attempt to alter or restrict the recipients' rights in the Source Code
Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code
    Form, as described in Section 3.1, and You must inform recipients of
    the Executable Form how they can obtain a copy of such Source Code
    Form by reasonable means in a timely manner, at a charge no more
    than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this
    License, or sublicense it under different terms, provided that the
    license for the Executable Form does not attempt to limit or alter
    the recipients' rights in the Source Code Form under this License.

3.3.

Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,
provided that You also comply with the requirements of this License for
the Covered Software. If the Larger Work is a combination of Covered
Software with a work governed by one or more Secondary Licenses, and the
Covered Software is not Incompatible With Secondary Licenses, this
License permits You to additionally distribute such Covered Software
under the terms of such Secondary License(s), so that the recipient of
the Larger Work may, at their option, further distribute the Covered
Software under the terms of either this License or such Secondary
License(s).

3.4. Notices

You may not remove or alter the substance of any license notices
(including copyright notices, patent notices, disclaimers of warranty,
or limitations of liability) contained within the Source Code Form of
the Covered Software, except that You may alter any license notices to
the extent required to remedy known
 factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support,
indemnity or liability obligations to one or more recipients of Covered
Software. However, You may do so only on Your own behalf, and not on
behalf of any Contributor. You must make it absolutely clear that any
such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation
---------------------------------------------------

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must:
 (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination

--------------

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from
 a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which
have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

```
************************************************************************
*                                                                    *
*                              *                                     *
*  6. Disclaimer of Warranty                      *                  *
*  -------------------------                      *                  *
*                                                 *                  *
*  Covered Software is provided under this License on an "as is"     *
*  basis, without warranty of any kind, either expressed, implied, or *
*  statutory, including, without limitation, warranties that the      *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*                                                                    *
```

```
 essential part of this License. No use of any Covered Software is   *
* authorized under this License except under this disclaimer.        *
*                                                  *
*********************************************************************

*********************************************************************
*                                                  *
* 7. Limitation of Liability                          *
* --------------------------                         *
*                                                  *
* Under no circumstances and under no legal theory, whether tort      *
* (including negligence), contract, or otherwise, shall any           *
* Contributor, or anyone who distributes Covered Software as           *
* permitted above, be liable to You for any direct, indirect,         *
* special, incidental, or consequential damages of any
 character      *
* including, without limitation, damages for lost profits, loss of    *
* goodwill, work stoppage, computer failure or malfunction, or any     *
* and all other commercial damages or losses, even if such party      *
* shall have been informed of the possibility of such damages. This    *
* limitation of liability shall not apply to liability for death or   *
* personal injury resulting from such party's negligence to the       *
* extent applicable law prohibits such limitation. Some               *
* jurisdictions do not allow the exclusion or limitation of           *
* incidental or consequential damages, so this exclusion and          *
* limitation may not apply to You.                          *
*                                                  *
*********************************************************************
```

8. Litigation

Any litigation relating to this License may be brought only in the
courts
 of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter

shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License.
 Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary
Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

 This Source Code Form is "Incompatible With Secondary Licenses", as
 defined by the Mozilla Public License, v. 2.0.

```

## Apache Commons Byte Code Engineering Library (BCEL) Version 6.4.1

### Apache Commons BCEL Notice
<pre>

  =========================================================================
  ==  NOTICE file corresponding to the section 4 d of            ==
  ==  the Apache License, Version 2.0,                           ==
  ==  in this case for the Apache Commons BCEL distribution.         ==
  =========================================================================

 This product includes software developed by
 The Apache Software Foundation (http://www.apache.org/).

</pre>

### Apache 2.0 License
<pre>

                    Apache License
                 Version 2.0, January 2004
                http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

 "License" shall mean the terms and conditions for use, reproduction,
 and distribution as defined by Sections 1 through 9 of
 this document.

 "Licensor" shall mean the copyright owner or entity authorized by
 the copyright owner that is granting the License.

 "Legal Entity" shall mean the union of the acting entity and all
 other entities that control, are controlled by, or are under common
 control with that entity. For the purposes of this definition,
 "control" means (i) the power, direct or indirect, to cause the
 direction or management of such entity, whether by contract or
 otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation
of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or
additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of

Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from
the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute,
alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor
regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether
in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
 the Work or Derivative Works thereof, You may choose to offer,
 and charge a fee for, acceptance of support, warranty, indemnity,
 or other liability obligations and/or rights consistent with this
 License. However, in accepting such obligations, You may act
only
 on Your own behalf and on Your sole responsibility, not on behalf
 of any other Contributor, and only if You agree to indemnify,
 defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
 of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

 To apply the Apache License to your work, attach the following
 boilerplate notice, with the fields enclosed by brackets "[]"
 replaced with your own identifying information. (Don't include
 the brackets!)  The text should be enclosed in the appropriate
 comment syntax for the file format. We also recommend that a
 file or class name and description of purpose be included on the
 same "printed page" as the copyright notice for easier
 identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License,
 Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>

# 1.348 libcrypto3 3.1.3-r0

## 1.348.1 Available under license :

This software is copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software; you can redistribute it and/or modify it under
the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free
  Software Foundation; either version 1, or (at your option) any
  later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software, licensed under:

 The GNU General Public License, Version 1, February 1989

		GNU GENERAL PUBLIC LICENSE
		 Version 1, February 1989

Preamble

 The license agreements of most software companies try to keep users
at the mercy of those companies.  By contrast, our General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  The
General Public License applies to the Free Software Foundation's
software and to any other program whose authors commit to using it.
You can use it for your programs, too.

 When we speak of free software, we are referring to freedom, not
price.  Specifically, the General Public License is designed to make
sure that you have the freedom to give away or sell copies of free
software, that you receive source code or can get it if you want it,
that you can change the software or use pieces of it in new free
programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender
 the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of a such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must tell them their rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 The precise terms and conditions
 for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any program or other work which
contains a notice placed by the copyright holder saying it may be
distributed under the terms of this General Public License.  The
"Program", below, refers to any such program or work, and a "work based
on the Program" means either the Program or any work containing the
Program or a portion of it, either verbatim or with modifications.  Each
licensee is addressed as "you".

 1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
General Public License and to the absence of any warranty; and give any
other recipients of the
 Program a copy of this General Public License
along with the Program.  You may charge a fee for the physical act of
transferring a copy.

 2. You may modify your copy or copies of the Program or any portion of
it, and copy and distribute such modifications under the terms of Paragraph
1 above, provided that you also do the following:

  a) cause the modified files to carry prominent notices stating that
  you changed the files and the date of any change; and

  b) cause the whole of any work that you distribute or publish, that
  in whole or in part contains the Program or any part thereof, either
  with or without modifications, to be licensed at no charge to all
  third parties under the terms of this General Public License (except
  that you may choose to grant warranty protection to some or all
  third parties, at your option).

  c) If the modified program normally reads commands interactively when
  run, you must cause it, when started running for such interactive
use
  in the simplest and most usual way, to print or display an
  announcement including an appropriate copyright notice and a notice
  that there is no warranty (or else, saying that you provide a
  warranty) and that users may redistribute the program under these
  conditions, and telling the user how to view a copy of this General
  Public License.

  d) You may charge a fee for the physical act of transferring a
  copy, and you may at your option offer warranty protection in

exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

 3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

  a) accompany it with the complete corresponding
 machine-readable
   source code, which must be distributed under the terms of
   Paragraphs 1 and 2 above; or,

  b) accompany it with a written offer, valid for at least three
   years, to give any third party free (except for a nominal charge
   for the cost of distribution) a complete machine-readable copy of the
   corresponding source code, to be distributed under the terms of
   Paragraphs 1 and 2 above; or,

  c) accompany it with the information you received as to where the
   corresponding source code may be obtained.  (This alternative is
   allowed only for noncommercial distribution and only if you
   received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it.  For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that
 accompany the operating system on which the executable
file runs, or for standard header files or definitions files that accompany that operating system.

 4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License.  However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

 5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
 original
licensor to copy, distribute or modify the Program subject to these
terms and conditions.  You may not impose any further restrictions on the
recipients' exercise of the rights granted herein.

 7. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of the license which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
the license, you may choose any version ever published by the Free Software
Foundation.

 8. If you wish to incorporate parts of the Program into other free
programs whose distribution
 conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                    NO WARRANTY

 9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY
 SERVICING,
REPAIR OR CORRECTION.

 10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

                    END OF TERMS AND CONDITIONS

        Appendix: How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to humanity, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

 To do so,
 attach the following notices to the program.  It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) 19yy  <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 1, or (at your option)
    any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free
 Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA  02110-1301 USA


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19xx name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.  Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary.  Here a sample; alter
 the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 program `Gnomovision' (a program to direct compilers to make passes
 at assemblers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

That's all there is to it!


--- The Artistic License 1.0 ---

This software is Copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software, licensed under:

 The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

 - "Package" refers to the collection of files distributed by the Copyright
   Holder, and derivatives of that collection
 of files created through
   textual modification.
 - "Standard Version" refers to such a Package if it has not been modified,
   or has been modified in accordance with the wishes of the Copyright
   Holder.

- "Copyright Holder" is whoever is named in the copyright or copyrights for
  the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media
  cost, duplication charges, time of people involved, and so on. (You will
  not be required to justify it to the Copyright Holder, but only to the
  computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though
  there may be fees involved in handling the item. It also means that
  recipients of the item may redistribute it under the same conditions they
  received it.

1. You may make and give away verbatim copies of
 the source form of the
Standard Version of this Package without restriction, provided that you
duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived
from the Public Domain or from the Copyright Holder. A Package modified in such
a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that
you insert a prominent notice in each changed file stating how and when you
changed that file, and provided that you do at least ONE of the following:

 a) place your modifications in the Public Domain or otherwise make them
    Freely Available, such as by posting said modifications to Usenet or an
    equivalent medium, or placing the modifications on a major archive site
    such as ftp.uu.net, or by allowing the Copyright Holder to include your
    modifications in the Standard Version of the Package.

 b) use the modified
Package only within your corporation or organization.

 c) rename any non-standard executables so the names do not conflict with
    standard executables, which must also be provided, and provide a separate
    manual page for each non-standard executable that clearly documents how it
    differs from the Standard Version.

 d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable
form, provided that you do at least ONE of the following:

 a) distribute a Standard Version of the executables and library files,
    together with instructions (in the manual page or equivalent) on where to
    get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package
   with your modifications.

c) accompany any non-standard executables with their corresponding Standard
   Version executables, giving the non-standard executables non-standard
   names,
and clearly documenting the differences in manual pages (or
   equivalent), together with instructions on where to get the Standard
   Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this
Package.  You may charge any fee you choose for support of this Package. You
may not charge a fee for this Package itself. However, you may distribute this
Package in aggregate with other (possibly commercial) programs as part of a
larger (possibly commercial) software distribution provided that you do not
advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output
from the programs of this Package do not automatically fall under the copyright
of this Package, but belong to whomever generated them, and may be sold
commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package
 shall not
be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote
products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF
MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

# 1.349 libssl3 3.1.3-r0
## 1.349.1 Available under license :

This software is copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software; you can redistribute it and/or modify it under
the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free
 Software Foundation; either version 1, or (at your option) any
 later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software, licensed under:

 The GNU General Public License, Version 1, February 1989

              GNU GENERAL PUBLIC LICENSE
                Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

 The license agreements of most software companies try to keep users
at the mercy of those companies.  By contrast, our General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  The
General Public License applies to the Free Software Foundation's
software and to any other program whose authors commit to using it.
You can use it for your programs, too.

 When we speak of free software, we are referring to freedom, not
price.  Specifically, the General Public License is designed to make
sure that you have the freedom to give away or sell copies of free
software, that you receive source code or can get it if you want it,
that you can change the software or use pieces of it in new free
programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender
 the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of a such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must tell them their rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 The precise terms and conditions
 for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any program or other work which
contains a notice placed by the copyright holder saying it may be
distributed under the terms of this General Public License.  The
"Program", below, refers to any such program or work, and a "work based
on the Program" means either the Program or any work containing the
Program or a portion of it, either verbatim or with modifications.  Each
licensee is addressed as "you".

 1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
General Public License and to the absence of any warranty; and give any
other recipients of the
 Program a copy of this General Public License
along with the Program.  You may charge a fee for the physical act of
transferring a copy.

 2. You may modify your copy or copies of the Program or any portion of
it, and copy and distribute such modifications under the terms of Paragraph
1 above, provided that you also do the following:

  a) cause the modified files to carry prominent notices stating that
  you changed the files and the date of any change; and

  b) cause the whole of any work that you distribute or publish, that
  in whole or in part contains the Program or any part thereof, either
  with or without modifications, to be licensed at no charge to all
  third parties under the terms of this General Public License (except
  that you may choose to grant warranty protection to some or all
  third parties, at your option).

  c) If the modified program normally reads commands interactively when
  run, you must cause it, when started running for such interactive

use
in the simplest and most usual way, to print or display an
announcement including an appropriate copyright notice and a notice
that there is no warranty (or else, saying that you provide a
warranty) and that users may redistribute the program under these
conditions, and telling the user how to view a copy of this General
Public License.

d) You may charge a fee for the physical act of transferring a
copy, and you may at your option offer warranty protection in
exchange for a fee.

Mere aggregation of another independent work with the Program (or its
derivative) on a volume of a storage or distribution medium does not bring
the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of
it, under Paragraph 2) in object code or executable form under the terms of
Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding
machine-readable
source code, which must be distributed under the terms of
Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three
years, to give any third party free (except for a nominal charge
for the cost of distribution) a complete machine-readable copy of the
corresponding source code, to be distributed under the terms of
Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the
corresponding source code may be obtained.  (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making
modifications to it.  For an executable file, complete source code means
all the source code for all modules it contains; but, as a special
exception, it need not include source code for modules which are standard
libraries that
 accompany the operating system on which the executable
file runs, or for standard header files or definitions files that
accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the
Program except as expressly provided under this General Public License.
Any attempt otherwise to copy, modify, sublicense, distribute or transfer

the Program is void, and will automatically terminate your rights to use
the Program under this License.  However, parties who have received
copies, or rights to use copies, from you under this General Public
License will not have their licenses terminated so long as such parties
remain in full compliance.

 5. By copying, distributing or modifying the Program (or any work based
on the Program) you indicate your acceptance of this license to do so,
and all its terms and conditions.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
 original
licensor to copy, distribute or modify the Program subject to these
terms and conditions.  You may not impose any further restrictions on the
recipients' exercise of the rights granted herein.

 7. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of the license which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
the license, you may choose any version ever published by the Free Software
Foundation.

 8. If you wish to incorporate parts of the Program into other free
programs whose distribution
 conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

 9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE

PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY
 SERVICING,
REPAIR OR CORRECTION.


 10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS


Appendix: How to Apply These Terms to Your New Programs


 If you develop a new program, and you want it to be of the greatest
possible use to humanity, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.


 To do so,
 attach the following notices to the program.  It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.


  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) 19yy  <name of author>


  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 1, or (at your option)
  any later version.


  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.


  You should have received a copy of the GNU General Public License
  along with this program; if not, write to the Free
 Software
  Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA  02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19xx name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License.  Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here a sample; alter
 the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 program `Gnomovision' (a program to direct compilers to make passes
 at assemblers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

That's all there is to it!


--- The Artistic License 1.0 ---

This software is Copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software, licensed under:

 The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package
may be copied, such that the Copyright Holder maintains some semblance of
artistic control over the development of the package, while giving the users of
the package the right to use and distribute the Package in a more-or-less
customary fashion, plus the right to make reasonable modifications.

Definitions:

- "Package" refers to the collection of files distributed by the Copyright
  Holder, and derivatives of that collection
of files created through
  textual modification.
- "Standard Version" refers to such a Package if it has not been modified,
  or has been modified in accordance with the wishes of the Copyright
  Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for
  the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media
  cost, duplication charges, time of people involved, and so on. (You will
  not be required to justify it to the Copyright Holder, but only to the
  computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though
  there may be fees involved in handling the item. It also means that
  recipients of the item may redistribute it under the same conditions they
  received it.

1. You may make and give away verbatim copies of
 the source form of the
Standard Version of this Package without restriction, provided that you
duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived
from the Public Domain or from the Copyright Holder. A Package modified in such
a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that
you insert a prominent notice in each changed file stating how and when you
changed that file, and provided that you do at least ONE of the following:

 a) place your modifications in the Public Domain or otherwise make them
    Freely Available, such as by posting said modifications to Usenet or an
    equivalent medium, or placing the modifications on a major archive site
    such as ftp.uu.net, or by allowing the Copyright Holder to include your
    modifications in the Standard Version of the Package.

 b) use the modified
 Package only within your corporation or organization.

 c) rename any non-standard executables so the names do not conflict with
    standard executables, which must also be provided, and provide a separate
    manual page for each non-standard executable that clearly documents how it
    differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

 a) distribute a Standard Version of the executables and library files,
   together with instructions (in the manual page or equivalent) on where to
   get the Standard Version.

 b) accompany the distribution with the machine-readable source of the Package
   with your modifications.

 c) accompany any non-standard executables with their corresponding Standard
   Version executables, giving the non-standard executables non-standard
   names,
and clearly documenting the differences in manual pages (or
   equivalent), together with instructions on where to get the Standard
   Version.

 d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package.  You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package
 shall not
be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

                    Apache License

Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

    for use, reproduction, or distribution of Your modifications, or
    for any such Derivative Works as a whole, provided Your use,
    reproduction, and distribution of the Work otherwise complies with
    the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the

origin of the Work and reproducing the

content of the NOTICE file.


7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.


8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly

negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct,

indirect, special,

incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.


9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability

 incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.


END OF TERMS AND CONDITIONS


# 1.350 openssl 3.1.3-r0

## 1.350.1 Available under license :

This software is copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.


This is free software; you can redistribute it and/or modify it under

the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free
   Software Foundation; either version 1, or (at your option) any
   later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software, licensed under:

 The GNU General Public License, Version 1, February 1989

            GNU GENERAL PUBLIC LICENSE
             Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

 The license agreements of most software companies try to keep users
at the mercy of those companies.  By contrast, our General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  The
General Public License applies to the Free Software Foundation's
software and to any other program whose authors commit to using it.
You can use it for your programs, too.

 When we speak of free software, we are referring to freedom, not
price.  Specifically, the General Public License is designed to make
sure that you have the freedom to give away or sell copies of free
software, that you receive source code or can get it if you want it,
that you can change the software or use pieces of it in new free
programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender
 the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

The precise terms and conditions
for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which
contains a notice placed by the copyright holder saying it may be
distributed under the terms of this General Public License.  The
"Program", below, refers to any such program or work, and a "work based
on the Program" means either the Program or any work containing the
Program or a portion of it, either verbatim or with modifications.  Each
licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source
code as you receive it, in any medium, provided that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and
disclaimer of warranty; keep intact all the notices that refer to this
General Public License and to the absence of any warranty; and give any
other recipients of the
Program a copy of this General Public License
along with the Program.  You may charge a fee for the physical act of
transferring a copy.

2. You may modify your copy or copies of the Program or any portion of
it, and copy and distribute such modifications under the terms of Paragraph
1 above, provided that you also do the following:

a) cause the modified files to carry prominent notices stating that
you changed the files and the date of any change; and

b) cause the whole of any work that you distribute or publish, that
in whole or in part contains the Program or any part thereof, either
with or without modifications, to be licensed at no charge to all
third parties under the terms of this General Public License (except
that you may choose to grant warranty protection to some or all
third parties, at your option).

c) If the modified program normally reads commands interactively when
run, you must cause it, when started running for such interactive
use
in the simplest and most usual way, to print or display an
announcement including an appropriate copyright notice and a notice
that there is no warranty (or else, saying that you provide a
warranty) and that users may redistribute the program under these
conditions, and telling the user how to view a copy of this General
Public License.

d) You may charge a fee for the physical act of transferring a
copy, and you may at your option offer warranty protection in
exchange for a fee.

Mere aggregation of another independent work with the Program (or its
derivative) on a volume of a storage or distribution medium does not bring
the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of
it, under Paragraph 2) in object code or executable form under the terms of
Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding
machine-readable
source code, which must be distributed under the terms of
Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three
years, to give any third party free (except for a nominal charge
for the cost of distribution) a complete machine-readable copy of the
corresponding source code, to be distributed under the terms of
Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the
corresponding source code may be obtained.  (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making
modifications to it.  For an executable file, complete source code means
all the source code for all modules it contains; but, as a special

exception, it need not include source code for modules which are standard libraries that
 accompany the operating system on which the executable
file runs, or for standard header files or definitions files that
accompany that operating system.

 4. You may not copy, modify, sublicense, distribute or transfer the
Program except as expressly provided under this General Public License.
Any attempt otherwise to copy, modify, sublicense, distribute or transfer
the Program is void, and will automatically terminate your rights to use
the Program under this License.  However, parties who have received
copies, or rights to use copies, from you under this General Public
License will not have their licenses terminated so long as such parties
remain in full compliance.

 5. By copying, distributing or modifying the Program (or any work based
on the Program) you indicate your acceptance of this license to do so,
and all its terms and conditions.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
 original
licensor to copy, distribute or modify the Program subject to these
terms and conditions.  You may not impose any further restrictions on the
recipients' exercise of the rights granted herein.

 7. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of the license which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
the license, you may choose any version ever published by the Free Software
Foundation.

 8. If you wish to incorporate parts of the Program into other free
programs whose distribution
 conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY
 SERVICING,
REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to humanity, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

 To do so,
 attach the following notices to the program.  It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) 19yy  <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 1, or (at your option)
  any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

 You should have received a copy of the GNU General Public License
 along with this program; if not, write to the Free
Software
 Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA  02110-1301 USA


Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

 Gnomovision version 69, Copyright (C) 19xx name of author
 Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
 This is free software, and you are welcome to redistribute it
 under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License.  Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here a sample; alter
 the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 program `Gnomovision' (a program to direct compilers to make passes
 at assemblers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

That's all there is to it!


--- The Artistic License 1.0 ---

This software is Copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software, licensed under:

 The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package
may be copied, such that the Copyright Holder maintains some semblance of
artistic control over the development of the package, while giving the users of
the package the right to use and distribute the Package in a more-or-less
customary fashion, plus the right to make reasonable modifications.

Definitions:

 - "Package" refers to the collection of files distributed by the Copyright
   Holder, and derivatives of that collection
 of files created through
   textual modification.
 - "Standard Version" refers to such a Package if it has not been modified,
   or has been modified in accordance with the wishes of the Copyright
   Holder.
 - "Copyright Holder" is whoever is named in the copyright or copyrights for
   the package.
 - "You" is you, if you're thinking about copying or distributing this Package.
 - "Reasonable copying fee" is whatever you can justify on the basis of media
   cost, duplication charges, time of people involved, and so on. (You will
   not be required to justify it to the Copyright Holder, but only to the
   computing community at large as a market that must bear the fee.)
 - "Freely Available" means that no fee is charged for the item itself, though
   there may be fees involved in handling the item. It also means that
   recipients of the item may redistribute it under the same conditions they
   received it.

1. You may make and give away verbatim copies of
 the source form of the
Standard Version of this Package without restriction, provided that you
duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived
from the Public Domain or from the Copyright Holder. A Package modified in such
a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that
you insert a prominent notice in each changed file stating how and when you
changed that file, and provided that you do at least ONE of the following:

 a) place your modifications in the Public Domain or otherwise make them
    Freely Available, such as by posting said modifications to Usenet or an
    equivalent medium, or placing the modifications on a major archive site
    such as ftp.uu.net, or by allowing the Copyright Holder to include your

modifications in the Standard Version of the Package.

b) use the modified
Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with
standard executables, which must also be provided, and provide a separate
manual page for each non-standard executable that clearly documents how it
differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable
form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files,
together with instructions (in the manual page or equivalent) on where to
get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package
with your modifications.

c) accompany any non-standard executables with their corresponding Standard
Version executables, giving the non-standard executables non-standard
names,
and clearly documenting the differences in manual pages (or
equivalent), together with instructions on where to get the Standard
Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this
Package.  You may charge any fee you choose for support of this Package. You
may not charge a fee for this Package itself. However, you may distribute this
Package in aggregate with other (possibly commercial) programs as part of a
larger (possibly commercial) software distribution provided that you do not
advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output
from the programs of this Package do not automatically fall under the copyright
of this Package, but belong to whomever generated them, and may be sold
commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package
shall not
be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote

products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

# 1.351 agetty 2.38.1-r8

## 1.351.1 Available under license :

NR START   END SECTORS SIZE NAME UUID

1    32  7679    7648 3.7M      8f8378c0-01

2  7680 16383    8704 4.3M      8f8378c0-02

5  7936 12799    4864 2.4M

6 12544 16127    3584 1.8M

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works.  By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users.  We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors.  You can apply it to
your programs, too.

When we speak of free software, we are referring to
freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights.  Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they

know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy,
is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A

"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally
 available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

 The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

 The Corresponding Source for a work in source code form is that
same work.

 2. Basic Permissions.

 All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met.  This License explicitly affirms your unlimited
permission to run the unmodified Program.  The output from running a
covered work is
 covered by this License only if the output, given its
content, constitutes a covered work.  This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

 You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force.  You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright.  Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under
the conditions stated below.  Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

 You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7.  This requirement modifies the requirement in section

4 to
"keep intact all notices".

c) You must license the entire work, as a whole, under this
License to anyone who comes into possession of a copy.  This
License will therefore apply, along with any applicable section 7
additional terms, to the whole of the work, and all its parts,
regardless of how they are packaged.  This License gives no
permission to license the work in any other way, but it does not
invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit.  Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

 6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no

more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source.  This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge.  You need not require recipients to copy the
Corresponding Source along with the object code.  If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source.  Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source
 as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,

procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this
License by making exceptions from one or more of its conditions.
Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent
that they are valid under applicable law.  If additional permissions
apply only to part of the Program, that part may be used separately
under those permissions, but the entire Program remains governed by
this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option
remove any additional permissions from that copy, or from any part of

it.  (Additional permissions may be written to require their own
removal in certain cases when you modify the work.)  You may place
additional permissions on material, added by you to a covered work,
for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you
add to a covered work, you may (if authorized by the copyright holders of
that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or
  author attributions in that material or in the Appropriate Legal
  Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or
  requiring that modified versions of such material be marked in
  reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or
  authors of the material; or

  e) Declining to grant rights under trademark law for use of some
  trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that
  material by anyone who conveys the material (or modified versions of
  it) with contractual assumptions of liability to the recipient, for
  any liability that these contractual assumptions directly impose on

  those licensors and authors.

 All other non-permissive additional terms are considered "further
restrictions" within the meaning of section 10.  If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term.  If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License.  Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License.  If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program.  Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance.  However,
nothing other than this License grants you permission to propagate or
modify any covered work.  These actions infringe copyright if you do
not accept this License.  Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License.  You are not responsible
for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations.  If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License.  For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based.  The
work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor
 version.  For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent

(such as an express permission to practice a patent or covenant not to sue for patent infringement).  To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this
License, through a
publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients.  "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered
work, then the patent license
you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License.  You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or
that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all.  For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
 License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work.  The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number.  If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you
 have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation.  If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different

permissions.  However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW.  EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU.  SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

          How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program.  It is safest
to attach them to the start of each source file to most effectively

state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program.  If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

 If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program>  Copyright (C) <year>  <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

 You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions

are met:

1. Redistributions of source code must retain the above copyright

  notice, and the entire permission notice in its entirety,

  including the disclaimer of warranties.

2. Redistributions in binary form must reproduce the above copyright

  notice, this list of conditions and the following disclaimer in the

  documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote

  products derived from this software without specific prior

  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED

WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF

WHICH ARE HEREBY DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR BE

LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL

 DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT

OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR

BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF

LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE

USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH

DAMAGE.

Permission to use, copy, modify, and/or distribute this software for any

purpose with or without fee is hereby granted, provided that the above

copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES

WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR

ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES

WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN

ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF

OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later

version.

The complete text of the license is available in the

../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

/*

* Copyright (c) 1989 The Regents of the University of California.

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*
 without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

                GNU LESSER GENERAL PUBLIC LICENSE
                   Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]


                    Preamble


 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some

specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who
 decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library,
 whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software
 patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License therefore permits
such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to gain by limiting
the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The

former contains code derived from the library, whereas the latter must
be combined with the library in order
 to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms.  A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into
 another language.  (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it.  For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it).  Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium,
 provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the
 terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application.  Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Library,
and can be
 reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary
 GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
 machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that

uses the

library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the
 object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

  a) Accompany
 the work with the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library.  (It is understood

that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library.  A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate
properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if
you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse
you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to

refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system
 which is
implemented by public license practices.  Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded.  In such case, this License incorporates the limitation as if written in the body of this License.

 13. The Free Software Foundation may publish
 revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation.  If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission.  For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this.  Our

decision
will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE,
BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file to most effectively
convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301
USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```
#!/usr/bin/env bash
MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
This script will read the license file into memory, strip out the copyright, and then
generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
local FILE="$1"

Read the contents of the file into a variable
local raw_license_text=$(<"$FILE")

Convert to lowercase
local lowercase_license_text="${raw_license_text,,}"

Remove anything before the beginning of the license
local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

Replace line breaks (Windows or Linux) with a single space
local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")
```

```
  # Replace multiple spaces with a single space
  local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

  # Strip away any non-printable, non-whitespace characters
  local clean_unprintable_license_text=$(tr
-cd '[:print:][:space:]' <<< "$normalized_license_text")

  # Remove punctuation and special characters
  local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

  # Calculate the MD5 sum of the cleaned license text
  local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

  # Output the MD5 sum
  echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
  echo "Please provide a FILE as an argument."
  exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
```
                    GNU GENERAL PUBLIC LICENSE
                       Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                    Preamble

  The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price.

Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which
 gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another

language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the
 Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause
 any work that you distribute or publish, that in
   whole or in part contains or is derived from the Program or any
   part thereof, to be licensed as a whole at no charge to all third
   parties under the terms of this License.

  c) If the modified program normally reads commands interactively
   when run, you must cause it, when started running for such
   interactive use in the most ordinary way, to print or display an
   announcement including an appropriate copyright notice and a
   notice that there is no warranty (or else, saying that you provide
   a warranty) and that users may redistribute the program under
   these conditions, and telling the user how to view a copy of this
   License. (Exception: if the Program itself is interactive but
   does not normally print such an announcement, your work based on
   the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work
 are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

  3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution
 and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include

anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source
 code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing
 or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For
 example, if a patent
license would not permit royalty-free redistribution of the Program by

all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to
 decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing
 version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author

to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

                        NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE,
 THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR
 THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

                END OF TERMS AND CONDITIONS

        How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU

General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this
is what you want to do, use the GNU Lesser General
Public License instead of this License.
WEV @@ WEV[B "1
x   ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV   @mImImIAmImImI0mImImI*mImI

A0mImImI...

lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later

1.352 tika-core 2.9.0
1.352.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

  You may add Your own copyright statement to Your modifications and
  may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
  for any such Derivative Works as a whole, provided Your use,
  reproduction, and distribution of the Work otherwise complies with
  the conditions stated in this License.

 5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

 6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

 7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
APACHE TIKA SUBCOMPONENTS

Apache Tika includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.

MIME type information from file-4.26.tar.gz (http://www.darwinsys.com/file/)

  Copyright (c) Ian F. Darwin 1986, 1987, 1989, 1990, 1991, 1992, 1994, 1995.
  Software written by Ian F. Darwin and others;
  maintained 1994- Christos Zoulas.

  This software is not subject to any export provision of the United States
  Department of Commerce, and may be exported to any country or planet.

  Redistribution
and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions
  are met:
  1. Redistributions of source code must retain the above copyright
     notice immediately at the beginning of the file, without modification,
     this list of conditions, and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.

  THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
  ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
  IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
  ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR
  ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
  DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
 OF SUBSTITUTE GOODS
  OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
  HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
  LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
  OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
  SUCH DAMAGE.

IPTC Photo Metadata descriptions are taken from the IPTC Photo Metadata
Standard, July 2010, Copyright 2010 International Press Telecommunications
Council.

1. The Specifications and Materials are licensed for use only on the condition that you agree to be bound by the terms of this license. Subject to this and other licensing requirements contained herein, you may, on a non-exclusive basis, use the Specifications and Materials.

2. The IPTC openly provides the Specifications and Materials for voluntary use by individuals, partnerships, companies, corporations, organizations and any other entity for use at the entity's own risk. This disclaimer, license and release is intended to apply to the IPTC, its officers, directors, agents, representatives, members, contributors, affiliates, contractors, or co-venturers acting jointly or severally.

3. The Document and translations thereof may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published and distributed, in whole or in part, without restriction of any kind, provided that the copyright and license notices and references to the IPTC appearing in the Document and the terms of this Specifications License Agreement are included on all such copies and derivative works. Further, upon the receipt of written permission from the IPTC, the Document may be modified for the purpose of developing applications that use IPTC Specifications or as required to translate the Document into languages other than English.

4. Any use, duplication, distribution, or exploitation of
the Document and Specifications and Materials in any manner is at your own risk.

5. NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE REGARDING THE ACCURACY, ADEQUACY, COMPLETENESS, LEGALITY, RELIABILITY OR USEFULNESS OF ANY INFORMATION CONTAINED IN THE DOCUMENT OR IN ANY SPECIFICATION OR OTHER PRODUCT OR SERVICE PRODUCED OR SPONSORED BY THE IPTC. THE DOCUMENT AND THE INFORMATION CONTAINED HEREIN AND INCLUDED IN ANY SPECIFICATION OR OTHER PRODUCT OR SERVICE OF THE IPTC IS PROVIDED ON AN "AS IS" BASIS. THE IPTC DISCLAIMS ALL WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY ACTUAL OR ASSERTED WARRANTY OF NON-INFRINGEMENT OF PROPRIETARY RIGHTS, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. NEITHER THE IPTC NOR ITS CONTRIBUTORS SHALL BE HELD LIABLE FOR ANY IMPROPER OR INCORRECT USE OF INFORMATION. NEITHER THE IPTC NOR ITS CONTRIBUTORS ASSUME ANY RESPONSIBILITY FOR ANYONE'S USE OF INFORMATION PROVIDED BY THE IPTC. IN NO EVENT SHALL THE IPTC OR ITS CONTRIBUTORS
BE LIABLE TO ANYONE FOR DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO, COMPENSATORY DAMAGES, LOST PROFITS, LOST DATA OR ANY FORM OF SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES OF ANY KIND WHETHER BASED ON BREACH OF CONTRACT OR WARRANTY, TORT, PRODUCT LIABILITY OR OTHERWISE.

6. The IPTC takes no position regarding the validity or scope of any Intellectual Property or other rights that might be claimed to pertain to the implementation or use of the technology described in the Document or the extent to which any license under such rights might or might not be available. The IPTC does not represent that it has made any effort to identify any such rights. Copies of claims of rights made available for publication, assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of the Specifications and Materials, can be obtained from the Managing
Director of the IPTC.

7. By using the Specifications and Materials including the Document in any manner or for any purpose, you release the IPTC from all liabilities, claims, causes of action, allegations, losses, injuries, damages, or detriments of any nature arising from or relating to the use of the Specifications, Materials or any portion thereof. You further agree not to file a lawsuit, make a claim, or take any other formal or informal legal action against the IPTC, resulting from your acquisition, use, duplication, distribution, or exploitation of the Specifications, Materials or any portion thereof. Finally, you hereby agree that the IPTC is not liable for any direct, indirect, special or consequential damages arising from or relating to your acquisition, use, duplication, distribution, or exploitation of the Specifications, Materials or

any portion thereof.

8. Specifications and Materials may be downloaded or copied provided that ALL copies retain the ownership, copyright

and license notices.

9. Materials may not be edited, modified, or presented in a context that creates a misleading or false impression or statement as to the positions, actions, or statements of the IPTC.

10. The name and trademarks of the IPTC may not be used in advertising, publicity, or in relation to products or services and their names without the specific, written prior permission of the IPTC. Any permitted use of the trademarks of the IPTC, whether registered or not, shall be accompanied by an appropriate mark and attribution, as agreed with the IPTC.

11. Specifications may be extended by both members and non-members to provide additional functionality (Extension Specifications) provided that there is a clear recognition of the IPTC IP and its ownership in the Extension Specifications and the related documentation and provided that the extensions are clearly identified and provided that a perpetual license is granted by the creator of the Extension Specifications for other

members and non-members to use the Extension Specifications and to continue extensions of the Extension Specifications. The IPTC does not waive any of its rights in the Specifications and Materials in this context. The Extension Specifications may be considered the intellectual property of their creator. The IPTC expressly disclaims any responsibility for damage caused by an extension to the Specifications.

12. Specifications and Materials may be included in derivative work of both members and non-members provided that there is a clear recognition of the IPTC IP and its ownership in the derivative work and its related documentation. The IPTC does not waive any of its rights in the Specifications and Materials in this context. Derivative work in its entirety may be considered the intellectual property of the creator of the work .The IPTC expressly disclaims any responsibility for damage caused when its IP is used in a derivative context.

13. This Specifications License Agreement

is perpetual subject to your conformance to the terms of this Agreement. The IPTC may terminate this Specifications License Agreement immediately upon your breach of this Agreement and, upon such termination you will cease all use, duplication, distribution, and/or exploitation in any manner of the Specifications and Materials.

14. This Specifications License Agreement reflects the entire agreement of the parties regarding the subject matter hereof and supersedes all prior agreements or representations regarding such matters, whether written or oral. To the extent any portion or provision of this Specifications License Agreement is found to be illegal or unenforceable, then the remaining provisions of this Specifications License Agreement will remain in full force and effect and the illegal or unenforceable provision will be construed to give it such effect as it may properly have that is consistent with the intentions of the parties.

15. This Specifications License Agreement may

only be modified in writing signed by an authorized representative of the IPTC.

16. This Specifications License Agreement is governed by the law of United Kingdom, as such law is applied to contracts made and fully performed in the United Kingdom. Any disputes arising from or relating to this Specifications License Agreement will be resolved in the courts of the United Kingdom. You consent to the jurisdiction of such courts over you and covenant not to assert before such courts any objection to proceeding in such forums.

Apache Tika core

This product includes software developed at

The Apache Software Foundation (http://www.apache.org/).

1.353 spring-cloud-starter-netflix-eureka-client 3.1.5

1.353.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1813605036_1696511716.067237/0/spring-cloud-starter-netflix-eureka-client-3-1-5-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-netflix-eureka-client/pom.xml

1.354 coreutils 9.3-r1

1.354.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The GNU General Public License is a free, copyleft license for
software and other kinds of works.

 The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

 When we speak of free software, we are referring to
 freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you

want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

 To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

 Developers that use the GNU GPL protect your rights with two steps:
(1)
 assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

 For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

 Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand
 ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

 Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

 The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees"
 and
"recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy,
 is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The
"System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally
available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
such as by intimate data communication or control flow between those
subprograms and other parts of the work.

The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

The Corresponding Source for a work in source code form is that
same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of
copyright on the Program, and are irrevocable provided the stated
conditions are met. This License explicitly affirms your unlimited
permission to run the unmodified Program. The output from running a
covered work is
covered by this License only if the output, given its
content, constitutes a covered work. This License acknowledges your
rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not
convey, without conditions so long as your license otherwise remains
in force. You may convey covered works to others for the sole purpose
of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with
the terms of this License in conveying all material for which you do
not control copyright. Those thus making or running the covered works
for you must do so exclusively on your behalf, under your direction
and control, on terms that prohibit them from making any copies of
your copyrighted material outside their relationship with you.

 Conveying under any other circumstances is permitted solely under
the conditions stated below. Sublicensing is not allowed;
 section 10
makes it unnecessary.

 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

 No covered work shall be deemed part of an effective technological
measure under any applicable law fulfilling obligations under article
11 of the WIPO copyright treaty adopted on 20 December 1996, or
similar laws prohibiting or restricting circumvention of such
measures.

 When you convey a covered work, you waive any legal power to forbid
circumvention of technological measures to the extent such circumvention
is effected by exercising rights under this License with respect to
the covered work, and you disclaim any intention to limit operation or
modification of the work as a means of enforcing, against the work's
users, your or third parties' legal rights to forbid circumvention of
technological measures.

 4. Conveying Verbatim Copies.

 You may convey verbatim copies of the Program's source code as you
receive it, in any medium, provided that you conspicuously and
appropriately
 publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any
non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

 You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

  a) The work must carry prominent notices stating that you modified
  it, and giving a relevant date.

  b) The work must carry prominent notices stating that it is
  released under this License and any conditions added under section
  7. This requirement modifies the requirement in section
4 to
  "keep intact all notices".

  c) You must license the entire work, as a whole, under this
  License to anyone who comes into possession of a copy. This
  License will therefore apply, along with any applicable section 7
  additional terms, to the whole of the work, and all its parts,
  regardless of how they are packaged. This License gives no
  permission to license the work in any other way, but it does not
  invalidate such permission if you have separately received it.

  d) If the work has interactive user interfaces, each must display
  Appropriate Legal Notices; however, if the Program has interactive
  interfaces that do not display Appropriate Legal Notices, your
  work need not make them do so.

 A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution
 medium, is called an
"aggregate" if the compilation and its resulting copyright are not
used to limit the access or legal rights of the compilation's users
beyond what the individual works permit. Inclusion of a covered work
in an aggregate does not cause this License to apply to the other
parts of the aggregate.

  6. Conveying Non-Source Forms.

 You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

  a) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by the
  Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

  b) Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a
  written offer, valid for at least three years
 and valid for as
  long as you offer spare parts or customer support for that product
  model, to give anyone who possesses the object code either (1) a
  copy of the Corresponding Source for all the software in the
  product that is covered by this License, on a durable physical
  medium customarily used for software interchange, for a price no
  more than your reasonable cost of physically performing this
  conveying of source, or (2) access to copy the
  Corresponding Source from a network server at no charge.

  c) Convey individual copies of the object code with a copy of the
  written offer to provide the Corresponding Source. This
  alternative is allowed only occasionally and noncommercially, and
  only if you received the object code with such an offer, in accord
  with subsection 6b.

  d) Convey the object code by offering access from a designated
  place (gratis or for a charge), and offer equivalent access to the
  Corresponding Source in
 the same way through the same place at no
  further charge. You need not require recipients to copy the
  Corresponding Source along with the object code. If the place to
  copy the object code is a network server, the Corresponding Source
  may be on a different server (operated by you or a third party)
  that supports equivalent copying facilities, provided you maintain
  clear directions next to the object code saying where to find the
  Corresponding Source. Regardless of what server hosts the
  Corresponding Source, you remain obligated to ensure that it is
  available for as long as needed to satisfy these requirements.

  e) Convey the object code using peer-to-peer transmission, provided
  you inform other peers where the object code and Corresponding
  Source of the work are being offered to the general public at no
  charge under subsection 6d.

 A separable portion of the object code, whose source code is excluded
 from the Corresponding Source
 as a System Library, need not be
 included in conveying the object code work.

 A "User Product" is either (1) a "consumer product", which means any
 tangible personal property which is normally used for personal, family,
 or household purposes, or (2) anything designed or sold for incorporation

into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

 "Installation Information" for a User Product means any methods,
procedures, authorization
 keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

 If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in
 ROM).

 The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

 Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

 7. Additional Terms.

 "Additional permissions" are terms that supplement the terms of this

License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the
 entire Program shall
be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

 When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

 Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

  a) Disclaiming warranty
 or limiting liability differently from the
  terms of sections 15 and 16 of this License; or

  b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

  c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

  d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

  e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

  f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on

  those licensors and authors.

 All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is

governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

 If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

 Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above
 requirements apply either way.

 8. Termination.

 You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

 However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

 Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright
 holder, and you cure the violation prior to 30 days after
your receipt of the notice.

 Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

  10. Automatic Licensing of Downstream Recipients.

 Each time you convey a covered work, the recipient automatically
receives a license from the original licensors, to run, modify and
propagate that work, subject to this License. You are not responsible
for enforcing compliance by third parties with this License.

 An "entity transaction" is a transaction transferring control of an
organization, or substantially all assets of one, or subdividing an
organization, or merging organizations. If propagation of a covered
work results from an entity transaction, each party to that
transaction who receives a copy of the work also receives whatever
licenses to the work the party's predecessor in interest had or could
give under the previous paragraph, plus a right to possession of the
Corresponding Source of the work from the predecessor in interest, if
the predecessor has it or can get it with reasonable efforts.

 You may not impose any further restrictions on the exercise of the
rights
 granted or affirmed under this License. For example, you may
not impose a license fee, royalty, or other charge for exercise of
rights granted under this License, and you may not initiate litigation
(including a cross-claim or counterclaim in a lawsuit) alleging that
any patent claim is infringed by making, using, selling, offering for
sale, or importing the Program or any portion of it.

  11. Patents.

 A "contributor" is a copyright holder who authorizes use under this
License of the Program or a work on which the Program is based. The
work thus licensed is called the contributor's "contributor version".

 A contributor's "essential patent claims" are all patent claims
owned or controlled by the contributor, whether already acquired or
hereafter acquired, that would be infringed by some manner, permitted
by this License, of making, using, or selling its contributor version,
but do not include claims that would be infringed only as a
consequence of further modification of the contributor

version. For
purposes of this definition, "control" includes the right to grant
patent sublicenses in a manner consistent with the requirements of
this License.

 Each contributor grants you a non-exclusive, worldwide, royalty-free
patent license under the contributor's essential patent claims, to
make, use, sell, offer for sale, import and otherwise run, modify and
propagate the contents of its contributor version.

 In the following three paragraphs, a "patent license" is any express
agreement or commitment, however denominated, not to enforce a patent
(such as an express permission to practice a patent or covenant not to
sue for patent infringement). To "grant" such a patent license to a
party means to make such an agreement or commitment not to enforce a
patent against the party.

 If you convey a covered work, knowingly relying on a patent license,
and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this
 License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

 If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered
 work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

 A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying

the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or
 that patent license was granted, prior to 28 March 2007.

 Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

 12. No Surrender of Others' Freedom.

 If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

 13. Use with the GNU Affero General Public
License.

 Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

 14. Revised Versions of this License.

 The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

 Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you

have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

 If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

 Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

 15. Disclaimer of Warranty.

 THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS"
 WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. Limitation of Liability.

 IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

 17.
 Interpretation of Sections 15 and 16.

 If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the

Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

                    END OF TERMS AND CONDITIONS

            How to Apply These Terms to Your New Programs

  If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

  To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

  If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

    <program> Copyright (C) <year> <name of author>
    This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

  You should also get your employer (if you work as a programmer) or school,

if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

 The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want
 to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/licenses/why-not-lgpl.html>.

1.355 spring-cloud-starter-sleuth 3.1.7

1.355.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--
 ~ Copyright 2013-2018 the original author or authors.
 ~
 ~ Licensed under the Apache License, Version 2.0 (the "License");
 ~ you may not use this file except in compliance with the License.
 ~ You may obtain a copy of the License at
 ~
 ~   https://www.apache.org/licenses/LICENSE-2.0
 ~
 ~ Unless required by applicable law or agreed to in writing, software
 ~ distributed under the License is distributed on an "AS IS" BASIS,
 ~ WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 ~ See the License for the specific language governing permissions and
 ~ limitations under the License.
 -->

Found in path(s):
* /opt/cola/permits/1813605030_1696511720.9951823/0/spring-cloud-starter-sleuth-3-1-7-jar/META-
INF/maven/org.springframework.cloud/spring-cloud-starter-sleuth/pom.xml

1.356 spring-cloud-starter-config 3.1.6

1.356.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1813605015_1696511718.5393574/0/spring-cloud-starter-config-3-1-6-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-config/pom.xml

1.357 spring-cloud-starter-loadbalancer 3.1.6

1.357.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1813605000_1696511722.6805232/0/spring-cloud-starter-loadbalancer-3-1-6-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-loadbalancer/pom.xml

1.358 cloudwatch 2.18.39

1.358.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang

Copyright 2001-2020
The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the

editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of

this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.359 arns 2.18.39

1.359.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core

- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
Apache Commons Lang
Copyright 2001-2020
The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.360 aws-query-protocol 2.18.39
1.360.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                        Apache License
                   Version 2.0, January 2004
                   http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common
      control with that entity. For the purposes of this definition,
      "control" means (i) the power, direct or indirect, to cause the
      direction or management of such entity, whether by contract or
      otherwise, or (ii) ownership of fifty percent (50%) or more of the
      outstanding shares, or (iii) beneficial ownership
   of such entity.

      "You" (or "Your") shall mean an individual or Legal Entity
      exercising permissions granted by this License.

      "Source" form shall mean the preferred form for making modifications,
      including but not limited to software source code, documentation
      source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.361 netty-nio-client 2.18.39

1.361.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by

Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/

  TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

  1. Definitions.

    "License" shall mean the terms and conditions for use, reproduction,
    and distribution as defined by Sections 1 through 9 of this document.

    "Licensor" shall mean the copyright owner or entity authorized by
    the copyright owner that is granting the License.

    "Legal Entity" shall mean the union of the acting entity and all
    other entities that control, are controlled by, or are under common
    control with that entity. For the purposes of this definition,
    "control" means (i) the power, direct or indirect, to cause the
    direction or management of such entity, whether by contract or
    otherwise, or (ii) ownership of fifty percent (50%) or more of the
    outstanding shares, or (iii) beneficial ownership
 of such entity.

    "You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
    incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.362 aws-xml-protocol 2.18.39

1.362.1 Available under license :

AWS SDK for Java 2.0

Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by

Amazon Technologies, Inc (http://www.amazon.com/).

****

THIRD PARTY COMPONENTS

****

This software includes third party software subject to the following copyrights:

- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

                    Apache License
                 Version 2.0, January 2004
               http://www.apache.org/licenses/

    TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

    1. Definitions.

      "License" shall mean the terms and conditions for use, reproduction,
      and distribution as defined by Sections 1 through 9 of this document.

      "Licensor" shall mean the copyright owner or entity authorized by
      the copyright owner that is granting the License.

      "Legal Entity" shall mean the union of the acting entity and all
      other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership

of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained

within such NOTICE file, excluding
those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.363 s3 2.18.39

1.363.1 Available under license :

AWS SDK for Java 2.0
Copyright Amazon.com, Inc. or its affiliates. All Rights Reserved.

This product includes software developed by
Amazon Technologies, Inc (http://www.amazon.com/).

****
THIRD PARTY COMPONENTS
****
This software includes third party software subject to the following copyrights:
- XML parsing and utility functions from JetS3t - Copyright 2006-2009 James Murty.
- PKCS#1 PEM encoded private key parsing and utility functions from oauth.googlecode.com - Copyright 1998-
2010 AOL Inc.
- Apache Commons Lang - https://github.com/apache/commons-lang
- Netty Reactive Streams - https://github.com/playframework/netty-reactive-streams
- Jackson-core - https://github.com/FasterXML/jackson-core
- Jackson-dataformat-cbor - https://github.com/FasterXML/jackson-dataformats-binary

The licenses for these third party components are included in LICENSE.txt

- For Apache Commons Lang see also this required NOTICE:
 Apache Commons Lang
 Copyright 2001-2020
 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

 "License" shall mean the terms and conditions for use, reproduction,
 and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Note: Other license terms may apply to certain, identified software files contained within or distributed
with the accompanying software if such terms are included in the directory containing the accompanying software.
Such other license terms will then apply in lieu of the terms of the software license above.

1.364 workflow-service 3.0.2
1.364.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed
 to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute
 and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

    GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which
 contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies
 of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole
or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered
 independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based
 on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution and only if you
  received the program in object code or
 executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as

distribution of the source code, even though third parties are not compelled to copy the
 source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

 6. Each
 time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution
 of the Program by
all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through
 any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number
 of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

    NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
 EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN
 IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

  END OF TERMS AND CONDITIONS

  How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 2 of the License,
 or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w'
 and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
 Imixs Workflow
Copyright (C) 2001, 2011 Imixs Software Solutions GmbH,
http://www.imixs.com

This program is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License
as published by the Free Software Foundation; either version 2
of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

General Public License for more details.

You can receive a copy of the GNU General Public
License at http://www.gnu.org/licenses/gpl.html

Project:
 http://www.imixs.org
 http://java.net/projects/imixs-workflow

Contributors:
 Imixs Software Solutions GmbH - initial API and implementation
 Ralph Soika - Software Developer

1.365 spring-cloud-starter-netflix-eureka-server 3.1.5

1.365.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License, Version 2.0</name>
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1813639246_1696512840.7198496/0/spring-cloud-starter-netflix-eureka-server-3-1-5-
jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-netflix-eureka-server/pom.xml

1.366 jaxb-core 2.3.8

1.366.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

 5. Submission of Contributions. Unless You explicitly state otherwise,
    any Contribution intentionally submitted for inclusion in the Work
    by You to the Licensor shall be under the terms and conditions of
    this License, without any additional terms or conditions.
    Notwithstanding the above, nothing herein shall supersede or modify
    the terms of any separate license agreement you may have executed
    with Licensor regarding such Contributions.

 6. Trademarks. This License does not grant permission to use the trade
    names, trademarks, service marks, or product names of the Licensor,
    except as required for reasonable and customary use in describing the
    origin of the Work and reproducing the
content of the NOTICE file.

 7. Disclaimer of Warranty. Unless required by applicable law or
    agreed to in writing, Licensor provides the Work (and each
    Contributor provides its Contributions) on an "AS IS" BASIS,
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    implied, including, without limitation, any warranties or conditions
    of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
    PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache CXF
Copyright 2006-2011 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

1.367 woodstox 6.2.1

1.367.1 Available under license :

This copy of Jackson JSON processor databind module is licensed under the
Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the
specific rights regarding derivate works.

You may obtain a copy of the License at:

http://www.apache.org/licenses/LICENSE-2.0

1.368 musl 1.2.4-r2

1.368.1 Available under license :

musl as a whole is licensed under the following standard MIT license:

Copyright 2005-2020 Rich Felker, et al.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
 LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Authors/contributors include:

A. Wilcox
Ada Worcester
Alex Dowad
Alex Suykov
Alexander Monakov
Andre McCurdy
Andrew Kelley
Anthony G. Basile
Aric Belsito
Arvid Picciani
Bartosz Brachaczek
Benjamin Peterson
Bobby Bingham
Boris Brezillon
Brent Cook
Chris Spiegel
Clment Vasseur
Daniel Micay
Daniel Sabogal
Daurnimator
David Carlier
David Edelsohn
Denys Vlasenko
Dmitry Ivanov
Dmitry V. Levin
Drew DeVault
Emil Renner Berthing
Fangrui Song
Felix Fietkau
Felix Janda
Gianluca Anzolin
Hauke Mehrtens
He X
Hiltjo Posthuma
Isaac Dunham
Jaydeep Patil
Jens Gustedt
Jeremy Huntwork
Jo-Philipp Wich

Joakim Sindholt

John Spencer

Julien Ramseier

Justin Cormack

Kaarle Ritvanen

Khem Raj

Kylie McClain

Leah Neukirchen

Luca Barbato

Luka

 Perkov

M Farkas-Dyck (Strake)

Mahesh Bodapati

Markus Wichmann

Masanori Ogino

Michael Clark

Michael Forney

Mikhail Kremnyov

Natanael Copa

Nicholas J. Kain

orc

Pascal Cuoq

Patrick Oppenlander

Petr Hosek

Petr Skocik

Pierre Carrier

Reini Urban

Rich Felker

Richard Pennington

Ryan Fairfax

Samuel Holland

Segev Finer

Shiz

sin

Solar Designer

Stefan Kristiansson

Stefan O'Rear

Szabolcs Nagy

Timo Ters

Trutz Behn

Valentin Ochs

Will Dietz

William Haddon

William Pitcock

Portions of this software are derived from third-party works licensed
under terms compatible with the above MIT license:

The TRE regular expression implementation (src/regex/reg* and src/regex/tre*) is Copyright 2001-2008 Ville Laurikari and licensed under a 2-clause BSD license (license text in the source files). The included version has been heavily modified by Rich Felker in 2012, in the interests of size, simplicity, and namespace cleanliness.

Much of the math library code (src/math/* and src/complex/*) is
Copyright 1993,2004
 Sun Microsystems or
Copyright 2003-2011 David Schultz or
Copyright 2003-2009 Steven G. Kargl or
Copyright 2003-2009 Bruce D. Evans or
Copyright 2008 Stephen L. Moshier or
Copyright 2017-2018 Arm Limited
and labelled as such in comments in the individual source files. All
have been licensed under extremely permissive terms.

The ARM memcpy code (src/string/arm/memcpy.S) is Copyright 2008 The Android Open Source Project and is licensed under a two-clause BSD license. It was taken from Bionic libc, used on Android.

The AArch64 memcpy and memset code (src/string/aarch64/*) are Copyright 1999-2019, Arm Limited.

The implementation of DES for crypt (src/crypt/crypt_des.c) is Copyright 1994 David Burren. It is licensed under a BSD license.

The implementation of blowfish crypt (src/crypt/crypt_blowfish.c) was originally written by Solar Designer and placed into the public domain. The code also comes with a fallback permissive license for use in jurisdictions that may not recognize the
 public domain.

The smoothsort implementation (src/stdlib/qsort.c) is Copyright 2011 Valentin Ochs and is licensed under an MIT-style license.

The x86_64 port was written by Nicholas J. Kain and is licensed under the standard MIT terms.

The mips and microblaze ports were originally written by Richard Pennington for use in the ellcc project. The original code was adapted by Rich Felker for build system and code conventions during upstream integration. It is licensed under the standard MIT terms.

The mips64 port was contributed by Imagination Technologies and is licensed under the standard MIT terms.

The powerpc port was also originally written by Richard Pennington,

and later supplemented and integrated by John Spencer. It is licensed
under the standard MIT terms.

All other files which have no copyright comments are original works
produced specifically for use as part of this library, written either
by Rich Felker, the main author of the library, or by one or more
contibutors listed
 above. Details on authorship of individual files
can be found in the git version control history of the project. The
omission of copyright and license comments in each file is in the
interest of source tree size.

In addition, permission is hereby granted for all public header files
(include/* and arch/*/bits/*) and crt files intended to be linked into
applications (crt/*, ldso/dlstart.c, and arch/*/crt_arch.h) to omit
the copyright notice and permission notice otherwise required by the
license, and to use these files without any requirement of
attribution. These files include substantial contributions from:

Bobby Bingham
John Spencer
Nicholas J. Kain
Rich Felker
Richard Pennington
Stefan Kristiansson
Szabolcs Nagy

all of whom have explicitly granted such permission.

This file previously contained text expressing a belief that most of
the files covered by the above exception were sufficiently trivial not
to be subject to copyright, resulting in confusion over whether it
negated
 the permissions granted in the license. In the spirit of
permissive licensing, and of not having licensing issues being an
obstacle to adoption, that text has been removed.

1.369 busybox 1.36.1-r4

1.369.1 Available under license :

bzip2 applet in busybox is based on lightly-modified source
of bzip2 version 1.0.4. bzip2 source is distributed
under the following conditions (copied verbatim from LICENSE file)
==

This program, "bzip2", the associated library "libbzip2", and all

documentation, are copyright (C) 1996-2006 Julian R Seward. All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software. If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
   not be misrepresented
   as being the original software.

4. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
--- A note on GPL versions

BusyBox is distributed under version 2 of the General Public License (included
in its entirety, below). Version 2 is the only version of this license which
this version of BusyBox (or modified versions derived from this one) may be
distributed under.

    GNU GENERAL PUBLIC LICENSE
        Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
     51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

     Preamble

  The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's
 software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

  When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

  To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

  For example, if you distribute copies of such a program, whether
gratis or for
 a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

  We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

  Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent
 this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

   GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this
 License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and
 copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices
stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
 License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution
 of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed
under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the
 executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or
 its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict
 the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity
 of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License

may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

  9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make
 exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

    NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED
 ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE

POSSIBILITY OF SUCH DAMAGES.

  END OF TERMS AND CONDITIONS

  How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where
 the full notice is found.

  <one line to give the program's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 2 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program; if not, write to the Free Software
  Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice
 like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) year name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of
 Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.370 ssl-client 1.36.1-r4

1.370.1 Available under license :

bzip2 applet in busybox is based on lightly-modified source
of bzip2 version 1.0.4. bzip2 source is distributed
under the following conditions (copied verbatim from LICENSE file)
==

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2006 Julian R Seward. All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software. If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
   not be misrepresented

as being the original software.

4. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
--- A note on GPL versions

BusyBox is distributed under version 2 of the General Public License (included
in its entirety, below). Version 2 is the only version of this license which
this version of BusyBox (or modified versions derived from this one) may be
distributed under.

       GNU GENERAL PUBLIC LICENSE
          Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
    51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

        Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's
 software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to

your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for
 a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent
 this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

    GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,

refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this
 License; they are outside its scope. The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and
 copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this

License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution
 of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed
 under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the
 executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under
this License will not have their licenses terminated so long as such
parties remain in full compliance.

 5. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Program or
 its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

 6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

 7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict

the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all. For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity
 of the free software distribution system, which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of

this License, you may choose any version ever published by the Free Software
Foundation.

  10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make
 exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

    NO WARRANTY

  11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

  12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED
 ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

    END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where

the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This program is free software; you can redistribute it and/or modify
    it under the terms of the GNU General Public License as published by
    the Free Software Foundation; either version 2 of the License, or
    (at your option) any later version.

    This program is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
    GNU General Public License for more details.

    You should have received a copy of the GNU General Public License
    along with this program; if not, write to the Free Software
    Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice
 like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of
 Vice

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.371 libcurl 8.4.0-r0

1.371.1 Available under license :

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2023, Daniel Stenberg, <daniel@haxx.se>, and many
contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright
notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE
OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not
be used in advertising or otherwise to promote the sale, use or other
 dealings
in this Software without prior written authorization of the copyright holder.

1.372 nghttp2 1.57.0-r0

1.372.1 Available under license :

The MIT License

Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa
Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
 WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
See COPYING
Copyright Joyent, Inc. and other Node contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN
 CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
This software is licensed under the MIT License.

Copyright Fedor Indutny, 2018.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to permit
persons to whom the Software is furnished to do so, subject to the
following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE,
 ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
USE OR OTHER DEALINGS IN THE SOFTWARE.
If not otherwise noted, the extensions in this package are licensed
under the following license.

Copyright (c) 2010 by the contributors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL,
 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.373 tomcat 9.0.73

1.373.1 Available under license :

Apache Tomcat
Copyright 1999-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache Tomcat Native Library
Copyright 2002-2018 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This software contains code derived from netty-native
developed by the Netty project
(http://netty.io, https://github.com/netty/netty-tcnative/)
and from finagle-native developed at Twitter
(https://github.com/twitter/finagle).

This product includes software developed by the OpenSSL Project
for use in the OpenSSL Toolkit. (http://www.openssl.org/)

This product includes cryptographic software written by
Eric Young (eay@cryptsoft.com)

This product includes software written by
Tim Hudson (tjh@cryptsoft.com)
Apache Commons Daemon
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).
Apache Tomcat
Copyright 1999-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

This software contains code derived from netty-native
developed by the Netty project
(https://netty.io, https://github.com/netty/netty-tcnative/)
and from finagle-native developed at Twitter
(https://github.com/twitter/finagle).

This software contains code derived from jgroups-kubernetes
developed by the JGroups project (http://www.jgroups.org/).

The Windows Installer is built with the Nullsoft
Scriptable Install System (NSIS), which is
open source software. The original software and
related information is available at
http://nsis.sourceforge.net.

Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.

The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is
 a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
are derivative work originating from the Netty project and the finagle-native
project developed at Twitter
* Copyright 2014 The Netty Project
* Copyright 2014 Twitter

For portions of the Tomcat cloud support
The org.apache.catalina.tribes.membership.cloud package contains derivative
work originating from the jgroups project.
https://github.com/jgroups-extras/jgroups-kubernetes
Copyright 2002-2018 Red Hat Inc.

The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
 - javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

                    Apache License

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE TOMCAT SUBCOMPONENTS:

Apache Tomcat includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.

For the following XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
 - web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

   1.1. Contributor. means each individual or entity that creates or contributes
        to the creation of Modifications.

   1.2. Contributor Version. means the combination of the Original Software,
        prior Modifications used by a Contributor (if any), and the
        Modifications made by that particular Contributor.

   1.3. Covered Software. means (a) the Original Software, or (b) Modifications,
        or (c) the combination of files containing Original Software with files
        containing Modifications, in each case including portions thereof.

   1.4. Executable. means the Covered Software in any form other than Source
        Code.

   1.5. Initial Developer. means the individual or entity that first makes
        Original Software available
   under this License.

   1.6. Larger Work. means a work which combines Covered Software or portions
        thereof with code not governed by the terms of this License.

   1.7. License. means this document.

   1.8. Licensable. means having the right to grant, to the maximum extent
        possible, whether at the time of the initial grant or subsequently
        acquired, any and all of the rights conveyed herein.

   1.9. Modifications. means the Source Code and Executable form of any of the
        following:

        A. Any file that results from an addition to, deletion from or
           modification of the contents of a file containing Original Software
           or previous Modifications;

        B. Any new file that contains any part of the Original Software or
           previous Modification; or

        C. Any new file that is contributed or otherwise made available under
           the terms of this License.

   1.10. Original Software. means the Source Code and Executable
   form of
        computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.
Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License
with every copy of the Source Code
form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software

exchange.

3.2. Modifications.
The Modifications that You create or to which You contribute are governed
by the terms of this License. You represent that You believe Your
Modifications are Your original creation(s) and/or You have sufficient
rights to grant the rights conveyed by this License.

3.3. Required Notices.
You must include a notice in each of Your Modifications that identifies
You as the Contributor of the Modification. You may not remove or alter
any copyright, patent or trademark notices contained within the Covered
Software, or any notices of licensing or any descriptive
text giving
attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.
You may not offer or impose any terms on any Covered Software in Source
Code form that alters or restricts the applicable version of this License
or the recipients. rights hereunder. You may choose to offer, and to
charge a fee for, warranty, support, indemnity or liability obligations to
one or more recipients of Covered Software. However, you may do so only on
Your own behalf, and not on behalf of the Initial Developer or any
Contributor. You must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by You alone, and
You hereby agree to indemnify the Initial Developer and every Contributor
for any liability incurred by the Initial Developer or such Contributor as
a result of warranty, support, indemnity or liability terms You offer.

3.5.
Distribution of Executable Versions.
You may distribute the Executable form of the Covered Software under the
terms of this License or under the terms of a license of Your choice,
which may contain terms different from this License, provided that You are
in compliance with the terms of this License and that the license for the
Executable form does not attempt to limit or alter the recipient.s rights
in the Source Code form from the rights set forth in this License. If You
distribute the Covered Software in Executable form under a different
license, You must make it absolutely clear that any terms which differ
from this License are offered by You alone, not by the Initial Developer
or Contributor. You hereby agree to indemnify the Initial Developer and
every Contributor for any liability incurred by the Initial Developer or
such Contributor as a result of any such terms You offer.

3.6. Larger Works.
You
may create a Larger Work by combining Covered Software with other code
not governed by the terms of this License and distribute the Larger Work

as a single product. In such a case, You must make sure the requirements
of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.
Sun Microsystems, Inc. is the initial license steward and may publish
revised and/or new versions of this License from time to time. Each
version will be given a distinguishing version number. Except as provided
in Section 4.3, no one other than the license steward has the right to
modify this License.

4.2. Effect of New Versions.
You may always continue to use, distribute or otherwise make the Covered
Software available under the terms of the version of the License under
which You originally received the Covered Software. If the Initial
Developer includes a notice in the Original Software
prohibiting it from
being distributed or otherwise made available under any subsequent version
of the License, You must distribute and make the Covered Software
available under the terms of the version of the License under which You
originally received the Covered Software. Otherwise, You may also choose
to use, distribute or otherwise make the Covered Software available under
the terms of any subsequent version of the License published by the
license steward.

4.3. Modified Versions.
When You are an Initial Developer and You want to create a new license for
Your Original Software, You may create and use a modified version of this
License if You: (a) rename the license and remove any references to the
name of the license steward (except to note that the license differs from
this License); and (b) otherwise make it clear that the license contains
terms which differ from this License.

5. DISCLAIMER
OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT
WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT
LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS,
MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK
AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD
ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL
DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY
SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN
ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED
HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

   6.1. This License and the rights granted hereunder will terminate
        automatically if You fail to comply with terms herein and fail to
        cure such breach within 30 days of becoming aware of the breach.

        Provisions which, by their nature, must remain in effect beyond the
        termination of this License shall survive.

   6.2. If You assert a patent infringement claim (excluding declaratory
        judgment actions) against Initial Developer or a Contributor (the
        Initial Developer or Contributor against whom You assert such claim
        is referred to as .Participant.) alleging that the Participant
        Software (meaning the Contributor Version where the Participant is a
        Contributor or the Original Software where the Participant is the
        Initial Developer) directly or indirectly infringes any patent, then
        any and all rights granted directly or indirectly to You by such
        Participant, the Initial Developer (if the Initial Developer is not
        the Participant) and all Contributors under Sections 2.1 and/or 2.2
        of this License shall, upon 60 days notice from Participant terminate

 prospectively and automatically at the expiration of such 60 day
        notice period, unless if within such 60 day period You withdraw Your
        claim with respect to the Participant Software against such
        Participant either unilaterally or pursuant to a written agreement
        with Participant.

   6.3. In the event of termination under Sections 6.1 or 6.2 above, all end
        user licenses that have been validly granted by You or any
        distributor hereunder prior to termination (excluding licenses
        granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

 UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING
 NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY
 OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF
 ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL,
 INCIDENTAL, OR CONSEQUENTIAL DAMAGES
 OF ANY CHARACTER INCLUDING, WITHOUT
 LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE,
 COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR
 LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF
 SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR
 DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY.S NEGLIGENCE TO THE EXTENT
 APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE
 EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS
 EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item,. as that term is defined in 48
C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as
that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and commercial
computer software documentation. as such terms are used in 48 C.F.R. 12.212
(Sept. 1995). Consistent
with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered
Software with only those rights set forth herein. This U.S. Government Rights
clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or
provision that addresses Government rights in computer software under this
License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary to make it
enforceable. This License shall be governed by the law of the jurisdiction
specified in a notice contained within the Original Software (except to the
extent applicable law, if any, provides otherwise), excluding such
jurisdiction's conflict-of-law provisions. Any litigation relating to this
License shall be subject to the jurisdiction of the courts located
in the
jurisdiction and venue specified in a notice contained within the Original
Software, with the losing party responsible for costs, including, without
limitation, court costs and reasonable attorneys. fees and expenses. The
application of the United Nations Convention on Contracts for the
International Sale of Goods is expressly excluded. Any law or regulation
which provides that the language of a contract shall be construed against
the drafter shall not apply to this License. You agree that You alone are
responsible for compliance with the United States export administration
regulations (and the export control laws and regulation of any other
countries) when You use, distribute or otherwise make available any Covered
Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible
for claims and damages arising, directly or indirectly, out of its
utilization of rights under this License
and You agree to work with Initial
Developer and Contributors to distribute such responsibility on an equitable
basis. Nothing herein is intended or shall be deemed to constitute any
admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License,
each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding
those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Standard Taglib Specification API
Copyright 2001-2015 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).
Apache Tomcat Native Library
Copyright 2002-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

This software contains code derived from netty-native
developed by the Netty project
(http://netty.io, https://github.com/netty/netty-tcnative/)
and from finagle-native developed at Twitter
(https://github.com/twitter/finagle).
Apache Tomcat JDBC Pool
Copyright 2008-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache Tomcat
Copyright 1999-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License,
each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding

those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

    You may add Your own copyright statement to Your modifications and
    may provide additional or different license terms and conditions

   for use, reproduction, or distribution of Your modifications, or
     for any such Derivative Works as a whole, provided Your use,
     reproduction, and distribution of the Work otherwise complies with
     the conditions stated in this License.

   5. Submission of Contributions. Unless You explicitly state otherwise,
     any Contribution intentionally submitted for inclusion in the Work
     by You to the Licensor shall be under the terms and conditions of
     this License, without any additional terms or conditions.
     Notwithstanding the above, nothing herein shall supersede or modify
     the terms of any separate license agreement you may have executed
     with Licensor regarding such Contributions.

   6. Trademarks. This License does not grant permission to use the trade
     names, trademarks, service marks, or product names of the Licensor,
     except as required for reasonable and customary use in describing the
     origin of the Work and reproducing the
   content of the NOTICE file.

   7. Disclaimer of Warranty. Unless required by applicable law or
     agreed to in writing, Licensor provides the Work (and each
     Contributor provides its Contributions) on an "AS IS" BASIS,
     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
     implied, including, without limitation, any warranties or conditions
     of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
     PARTICULAR PURPOSE. You are solely responsible for determining the
     appropriateness of using or redistributing the Work and assume any
     risks associated with Your exercise of permissions under this License.

   8. Limitation of Liability. In no event and under no legal theory,
     whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

For OpenSSL:

LICENSE ISSUES
==============

The OpenSSL toolkit stays under a double license, i.e. both the conditions of
the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts.

OpenSSL License

```
/* ====================================================================
 * Copyright (c) 1998-2018 The OpenSSL Project.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 *
 * 1. Redistributions of source code must retain the above
 copyright
 *    notice, this list of conditions and the following disclaimer.
 *
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in
 *    the documentation and/or other materials provided with the
 *    distribution.
 *
 * 3. All advertising materials mentioning features or use of this
 *    software must display the following acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 *    endorse or promote products derived from this software without
 *    prior written permission. For written permission, please contact
 *    openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 *    nor may "OpenSSL" appear in their names without prior written
 *    permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 *    acknowledgment:
 *    "This product includes software developed by the OpenSSL Project
 *    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
```

*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY
 OF SUCH DAMAGE.
* ==
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/

Original SSLeay License

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to. The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code. The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
 * Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions

* are met:
* 1. Redistributions of source code must retain the copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
*   "This product includes cryptographic software written by
*   Eric Young (eay@cryptsoft.com)"
*   The word 'cryptographic' can be left out if the rouines from the library
*   being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*   the apps directory (application code) you must include an acknowledgement:
*   "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER
 CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/

Apache Standard Taglib Implementation
Copyright 2001-2015 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding

those notices that do not

    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

  You may add Your own copyright statement to Your modifications and
  may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
  for any such Derivative Works as a whole, provided Your use,
  reproduction, and distribution of the Work otherwise complies with
  the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

                    Apache License
                Version 2.0, January 2004
               http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership
of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and configuration files.

   "Object" form shall mean any form resulting from mechanical
   transformation or translation of a Source form, including but
   not limited to compiled object code, generated documentation,
   and conversions to other media types.

   "Work" shall mean the work of authorship, whether in Source or
   Object form, made available under the License, as indicated by a

copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

 4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding
those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

 for use, reproduction, or distribution of Your modifications, or
  for any such Derivative Works as a whole, provided Your use,
  reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
   PARTICULAR PURPOSE. You are solely responsible for determining the
   appropriateness of using or redistributing the Work and assume any
   risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct,
indirect, special,
   incidental, or consequential damages of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

APACHE TOMCAT SUBCOMPONENTS:

Apache Tomcat includes a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the following licenses.

For the Eclipse JDT Core Batch Compiler (ecj-x.x.x.jar) component:

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and
 documentation
distributed under this Agreement, and

b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are
distributed by that particular Contributor. A Contribution 'originates' from a
Contributor if it was added to the Program by such Contributor itself or anyone
acting on such Contributor's behalf. Contributions do not include additions to
the Program which: (i) are separate modules of software distributed in
conjunction with the Program under their own license agreement, and (ii) are not
derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are
necessarily infringed by the use or sale of its Contribution alone or when
combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient"
 means anyone who receives the Program under this Agreement,
including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free copyright license to
reproduce, prepare derivative works of, publicly display, publicly perform,
distribute and sublicense the Contribution of such Contributor, if any, and such
derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants
Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed
Patents to make, use, sell, offer to sell, import and otherwise transfer the
Contribution of such Contributor, if any, in source code and object code form.
This patent license shall apply to the combination of the Contribution and the
Program if, at the time the Contribution is added by the Contributor, such
addition of the Contribution causes such combination to be covered

by the
Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents
 that to its knowledge it has sufficient copyright
rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for
 the Program is available from such Contributor,
and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not
 create potential liability for other Contributors. Therefore, if
a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related
 settlement negotiations. The Indemnified Contributor may
participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT,
 MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF
 THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such
 noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be

modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions)
 may always
be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

For the Windows Installer component:

  * All NSIS source code, plug-ins, documentation,
 examples, header files and
    graphics, with the exception of the compression modules and where
    otherwise noted, are licensed under the zlib/libpng license.
  * The zlib compression module for NSIS is licensed under the zlib/libpng
    license.
  * The bzip2 compression module for NSIS is licensed under the bzip2 license.
  * The lzma compression module for NSIS is licensed under the Common Public
    License version 1.0.

zlib/libpng license

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not claim
     that you wrote the original software. If you use this software in a

product,
an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

bzip2 license

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.
2. The origin of this software must not be misrepresented; you must not claim
   that you wrote the original software. If you use this software in a
   product, an acknowledgment in the product documentation would be
   appreciated but is not required.
3. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original
software.
4. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY
OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.

jseward@acm.org
Common Public License version 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS
 OF THIS COMMON PUBLIC
LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM
CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and b) in the case of each subsequent Contributor:

i) changes to the Program, and

ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed
 Patents " mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor,
 if any, in source code and object code form.
This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual
 property rights needed, if any.
For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including
 direct, indirect, special, incidental and consequential
damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities
 with
respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement.
 In order
to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5.
 NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE,

NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER
 CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes
 patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid

inconsistency the Agreement is copyrighted and may only be
modified in the following manner. The Agreement Steward reserves the right to
publish new versions (including revisions) of this Agreement from time to time.
No one other than the Agreement Steward has the right to modify this Agreement.
IBM is the initial Agreement Steward. IBM may assign the responsibility to serve
as the Agreement Steward to a suitable separate entity. Each new version of the
Agreement will be given a distinguishing version number. The Program (including
Contributions) may always be distributed subject to the version of the Agreement
under which it was received. In addition, after a new version of the Agreement
is published, Contributor may elect to distribute the Program (including its
Contributions) under the new version. Except as expressly stated in Sections
2(a) and 2(b) above, Recipient receives no rights or licenses to the
intellectual property of any Contributor under this Agreement, whether
expressly,
 by implication, estoppel or otherwise. All rights in the Program not
expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury trial in
any resulting litigation.

Special exception for LZMA compression module

Igor Pavlov and Amir Szekely, the authors of the LZMA compression module for
NSIS, expressly permit you to statically or dynamically link your code (or bind
by name) to the files from the LZMA compression module for NSIS without
subjecting your linked code to the terms of the Common Public license version
1.0. Any modifications or additions to files from the LZMA compression module
for NSIS, however, are subject to the terms of the Common Public License version
1.0.

For the following XML
 Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd

- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

   1.1. Contributor. means each individual or entity that creates or contributes
        to the creation of Modifications.

   1.2. Contributor Version. means the combination of the Original Software,
        prior Modifications used by a Contributor (if any), and the
        Modifications made by that particular Contributor.

   1.3. Covered Software. means (a) the Original
 Software, or (b) Modifications,
        or (c) the combination of files containing Original Software with files
        containing Modifications, in each case including portions thereof.

   1.4. Executable. means the Covered Software in any form other than Source
        Code.

   1.5. Initial Developer. means the individual or entity that first makes
        Original Software available under this License.

   1.6. Larger Work. means a work which combines Covered Software or portions
        thereof with code not governed by the terms of this License.

   1.7. License. means this document.

   1.8. Licensable. means having the right to grant, to the maximum extent
        possible, whether at the time of the initial grant or subsequently
        acquired, any and all of the rights conveyed herein.

   1.9. Modifications. means the Source Code and Executable form of any of the
        following:

        A. Any file that results from an addition to, deletion from or
           modification
 of the contents of a file containing Original Software
           or previous Modifications;

B. Any new file that contains any part of the Original Software or
   previous Modification; or

C. Any new file that is contributed or otherwise made available under
   the terms of this License.

1.10. Original Software. means the Source Code and Executable form of
   computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter
   acquired, including without limitation, method, process, and apparatus
   claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in
   which modifications are made and (b) associated documentation included
   in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising
   rights under, and complying with all
of the terms of, this License. For
   legal entities, .You. includes any entity which controls, is controlled
   by, or is under common control with You. For purposes of this
   definition, .control. means (a) the power, direct or indirect, to cause
   the direction or management of such entity, whether by contract or
   otherwise, or (b) ownership of more than fifty percent (50%) of the
   outstanding shares or beneficial ownership of such entity.

2. License Grants.

   2.1. The Initial Developer Grant.

   Conditioned upon Your compliance with Section 3.1 below and subject to
   third party intellectual property claims, the Initial Developer hereby
   grants You a world-wide, royalty-free, non-exclusive license:

   (a) under intellectual property rights (other than patent or trademark)
       Licensable by Initial Developer, to use, reproduce, modify, display,
       perform, sublicense and distribute the Original Software
(or
       portions thereof), with or without Modifications, and/or as part of
       a Larger Work; and

   (b) under Patent Claims infringed by the making, using or selling of
       Original Software, to make, have made, use, practice, sell, and
       offer for sale, and/or otherwise dispose of the Original Software
       (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of:
(1) Modifications made by that Contributor (or
portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications
made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.
Any Covered Software that You distribute or otherwise make available in
Executable form must also be made available in Source Code form and that
Source Code form must be distributed only under the terms of this License.
You must include a copy of this License with every copy of the Source Code
form of the Covered Software You distribute or otherwise make available.
You must inform recipients of any such Covered Software in Executable form
as to how they can obtain such Covered Software in Source Code form in a
reasonable manner on or through a medium customarily used for software
exchange.

3.2. Modifications.
The Modifications that You create or to which You contribute are governed
by the terms of this License. You represent that You believe Your
Modifications are Your original creation(s) and/or You have
sufficient
rights to grant the rights conveyed by this License.

3.3. Required Notices.
You must include a notice in each of Your Modifications that identifies
You as the Contributor of the Modification. You may not remove or alter
any copyright, patent or trademark notices contained within the Covered
Software, or any notices of licensing or any descriptive text giving
attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.
You may not offer or impose any terms on any Covered Software in Source
Code form that alters or restricts the applicable version of this License
or the recipients. rights hereunder. You may choose to offer, and to
charge a fee for, warranty, support, indemnity or liability obligations to
one or more recipients of Covered Software. However, you may do so only on
Your own behalf, and not on behalf of the Initial Developer or any
Contributor.
You must make it absolutely clear that any such warranty,
support, indemnity or liability obligation is offered by You alone, and
You hereby agree to indemnify the Initial Developer and every Contributor
for any liability incurred by the Initial Developer or such Contributor as
a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.
You may distribute the Executable form of the Covered Software under the
terms of this License or under the terms of a license of Your choice,
which may contain terms different from this License, provided that You are
in compliance with the terms of this License and that the license for the
Executable form does not attempt to limit or alter the recipient.s rights
in the Source Code form from the rights set forth in this License. If You

distribute the Covered Software in Executable form under a different
license, You must
make it absolutely clear that any terms which differ
from this License are offered by You alone, not by the Initial Developer
or Contributor. You hereby agree to indemnify the Initial Developer and
every Contributor for any liability incurred by the Initial Developer or
such Contributor as a result of any such terms You offer.

3.6. Larger Works.
You may create a Larger Work by combining Covered Software with other code
not governed by the terms of this License and distribute the Larger Work
as a single product. In such a case, You must make sure the requirements
of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.
Sun Microsystems, Inc. is the initial license steward and may publish
revised and/or new versions of this License from time to time. Each
version will be given a distinguishing version number. Except as provided
in Section 4.3, no one other
than the license steward has the right to
modify this License.

4.2. Effect of New Versions.
You may always continue to use, distribute or otherwise make the Covered
Software available under the terms of the version of the License under
which You originally received the Covered Software. If the Initial
Developer includes a notice in the Original Software prohibiting it from
being distributed or otherwise made available under any subsequent version
of the License, You must distribute and make the Covered Software
available under the terms of the version of the License under which You
originally received the Covered Software. Otherwise, You may also choose
to use, distribute or otherwise make the Covered Software available under
the terms of any subsequent version of the License published by the
license steward.

4.3. Modified Versions.
When You are an Initial Developer and You want to create a new
license for
Your Original Software, You may create and use a modified version of this
License if You: (a) rename the license and remove any references to the
name of the license steward (except to note that the license differs from
this License); and (b) otherwise make it clear that the license contains
terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN .AS IS. BASIS, WITHOUT
WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT
LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS,
MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK
AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD
ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL
DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY
SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY
CONSTITUTES AN
ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED
HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

    6.1. This License and the rights granted hereunder will terminate
        automatically if You fail to comply with terms herein and fail to
        cure such breach within 30 days of becoming aware of the breach.
        Provisions which, by their nature, must remain in effect beyond the
        termination of this License shall survive.

    6.2. If You assert a patent infringement claim (excluding declaratory
        judgment actions) against Initial Developer or a Contributor (the
        Initial Developer or Contributor against whom You assert such claim
        is referred to as .Participant.) alleging that the Participant
        Software (meaning the Contributor Version where the Participant is a
        Contributor or the Original Software where the Participant is the
        Initial
Developer) directly or indirectly infringes any patent, then
        any and all rights granted directly or indirectly to You by such
        Participant, the Initial Developer (if the Initial Developer is not
        the Participant) and all Contributors under Sections 2.1 and/or 2.2
        of this License shall, upon 60 days notice from Participant terminate
        prospectively and automatically at the expiration of such 60 day
        notice period, unless if within such 60 day period You withdraw Your
        claim with respect to the Participant Software against such
        Participant either unilaterally or pursuant to a written agreement
        with Participant.

    6.3. In the event of termination under Sections 6.1 or 6.2 above, all end
        user licenses that have been validly granted by You or any
        distributor hereunder prior to termination (excluding licenses
        granted to You by any distributor) shall survive termination.

7.
LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING
NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY

OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY.S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION
 MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item,. as that term is defined in 48
C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as
that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and commercial
computer software documentation. as such terms are used in 48 C.F.R. 12.212
(Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered
Software with only those rights set forth herein. This U.S. Government Rights
clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or
provision that addresses Government rights in computer software under this
License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter
hereof. If any provision of this License is held to be unenforceable, such
provision shall be reformed only to the extent necessary
 to make it
enforceable. This License shall be governed by the law of the jurisdiction
specified in a notice contained within the Original Software (except to the
extent applicable law, if any, provides otherwise), excluding such
jurisdiction's conflict-of-law provisions. Any litigation relating to this
License shall be subject to the jurisdiction of the courts located in the
jurisdiction and venue specified in a notice contained within the Original
Software, with the losing party responsible for costs, including, without
limitation, court costs and reasonable attorneys. fees and expenses. The
application of the United Nations Convention on Contracts for the
International Sale of Goods is expressly excluded. Any law or regulation
which provides that the language of a contract shall be construed against
the drafter shall not apply to this License. You agree that You alone are
responsible for compliance with the United States export administration
 regulations (and the export control laws and regulation of any other
countries) when You use, distribute or otherwise make available any Covered
Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible
for claims and damages arising, directly or indirectly, out of its
utilization of rights under this License and You agree to work with Initial
Developer and Contributors to distribute such responsibility on an equitable
basis. Nothing herein is intended or shall be deemed to constitute any
admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION
LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State
of California (excluding conflict-of-law provisions). Any litigation relating
to this License shall be subject to the jurisdiction of the Federal Courts of
the Northern District of California and the state
courts of the State of
California, with venue lying in Santa Clara County, California.

1.374 spring-framework 5.3.26

1.374.1 Available under license :

Spring Framework ${version}
Copyright (c) 2002-${copyright} Pivotal, Inc.

This product is licensed to you under the Apache License, Version 2.0
(the "License"). You may not use this product except in compliance with
the License.

This product may include a number of subcomponents with separate
copyright notices and license terms. Your use of the source code for
these subcomponents is subject to the terms and conditions of the
subcomponent's license, as noted in the license.txt file.

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial
revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this
License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding

those notices that do not

pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the

content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

<div align="center">

Apache License

Version 2.0, January 2004

https://www.apache.org/licenses/

</div>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial

revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
 and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute
copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained
       within such NOTICE file, excluding
those notices that do not
       pertain to any part of the Derivative Works, in at least one
       of the following places: within a NOTICE text file distributed
       as part of the Derivative Works; within the Source form or
       documentation, if provided along with the Derivative Works; or,
       within a display generated by the Derivative Works, if and
       wherever such third-party notices normally appear. The contents
       of the NOTICE file are for informational purposes only and
       do not modify the License. You may add Your own attribution
       notices within Derivative Works that You distribute, alongside
       or as an addendum to the NOTICE text from the Work, provided
       that such additional attribution notices cannot be construed
       as modifying the License.

   You may add Your own copyright statement to Your modifications and
   may provide additional or different license terms and conditions

  for use, reproduction, or distribution of Your modifications, or
   for any such Derivative Works as a whole, provided Your use,
   reproduction, and distribution of the Work otherwise complies with
   the conditions stated in this License.

 5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the
content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct,
indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
 incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  https://www.apache.org/licenses/LICENSE-2.0

 Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

===

SPRING FRAMEWORK ${version} SUBCOMPONENTS:

Spring Framework ${version} includes a number of subcomponents
with separate copyright notices and license terms. The product that
includes this file does not necessarily use all the open source
subcomponents referred to below. Your use of the source
code for these subcomponents is subject to the terms and
conditions of the following licenses.

>>> ASM 9.1 (org.ow2.asm:asm:9.1, org.ow2.asm:asm-commons:9.1):

Copyright (c) 2000-2011 INRIA, France Telecom
All rights reserved.

Redistribution and use in source and binary
 forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2009, OW2 Consortium <https://www.ow2.org/>

>>> CGLIB 3.3 (cglib:cglib:3.3):

Per the LICENSE file in the CGLIB JAR distribution downloaded from
https://github.com/cglib/cglib/releases/download/RELEASE_3_3_0/cglib-3.3.0.jar,
CGLIB 3.3 is licensed under the Apache License, version 2.0, the text of which
is included above.

>>> Objenesis 3.2 (org.objenesis:objenesis:3.2):

Per the LICENSE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html, Objenesis 3.2 is licensed under the
Apache License, version 2.0, the text of which is included above.

Per
 the NOTICE file in the Objenesis ZIP distribution downloaded from
http://objenesis.org/download.html and corresponding to section 4d of the
Apache License, Version 2.0, in this case for Objenesis:

Objenesis
Copyright 2006-2019 Joe Walnes, Henri Tremblay, Leonardo Mesquita

==

To the extent any open source components are licensed under the EPL and/or
other similar licenses that require the source code and/or modifications to
source code to be made available (as would be noted above), you may obtain a
copy of the source code corresponding to the binaries for such open source
components and modifications thereto, if any, (the "Source Files"), by
downloading the Source Files from https://spring.io/projects, Pivotal's website
at https://network.pivotal.io/open-source, or by sending a request, with your
name and address to: Pivotal Software, Inc., 875 Howard Street, 5th floor, San
Francisco, CA 94103,
 Attention: General Counsel. All such requests should
clearly specify: OPEN SOURCE FILES REQUEST, Attention General Counsel. Pivotal
can mail a copy of the Source Files to you on a CD or equivalent physical
medium.

This offer to obtain a copy of the Source Files is valid for three years from
the date you acquired this Software product. Alternatively, the Source Files
may accompany the Software.

1.375 openjdk 17.0.8
1.375.1 Available under license :

c-libutl 20160225

c-libutl License
```

This software is distributed under the terms of the BSD license.

==  BSD LICENSE  ============================================================

(C) 2009 by Remo Dentato (rdentato@gmail.com)

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright notice,
    this list of conditions and the following disclaimer in the documentation
    and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT

SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

http://opensource.org/licenses/bsd-license.php

```

Apache Xerces v2.12.2

Apache Xerces Notice
<pre>
  ===
  == NOTICE file corresponding to section 4(d) of the Apache License,   ==
  == Version 2.0, in this case for the Apache Xerces Java distribution. ==
  ===

  Apache Xerces Java
  Copyright 1999-2022 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

  Portions of this software were originally based on the following:
   - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
   - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
   - voluntary contributions made by Paul Eng on behalf of the
  Apache Software Foundation that were originally developed at iClick, Inc.,
   software copyright (c) 1999.
</pre>

Apache 2.0 License
<pre>

                    Apache License
                Version 2.0, January 2004
             http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean
an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work
of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work,
but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make,
have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients
of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with
the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any
Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions

of

TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such
damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should
be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
Little Color Management System (LCMS) v2.15

LCMS License
<pre>
README.1ST file information

LittleCMS core is released under MIT License

Little CMS
Copyright (c) 1998-2023 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject
to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN
 NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The below license applies to the following files:
liblcms/cmssm.c

Copyright 2001, softSurfer (www.softsurfer.com)

This code may be freely used and modified for any purpose
providing that this copyright notice is included with it.
SoftSurfer makes no warranty for this code, and cannot be held
liable for any real or imagined damage resulting from its use.
Users of this code must verify correctness for their application.

</pre>

AUTHORS File Information
```


Main Author
------------
Marti Maria


Contributors
------------
Bob Friesenhahn
Kai-Uwe Behrmann
Stuart Nixon
Jordi Vilar
Richard Hughes
Auke Nauta
Chris Evans (Google)
Lorenzo Ridolfi
Robin Watts (Artifex)
Shawn Pedersen
Andrew Brygin
Samuli
 Suominen
Florian Hch
Aurelien Jarno
Claudiu Cebuc
Michael Vhrel (Artifex)
Michal Cihar
Daniel Kaneider
Mateusz Jurczyk (Google)
Paul Miller
Sbastien Lon
Christian Schmitz
XhmikosR
Stanislav Brabec (SuSe)
Leonhard Gruenschloss (Google)
Patrick Noffke

Christopher James Halse Rogers

John Hein

Thomas Weber (Debian)

Mark Allen

Noel Carboni

Sergei Trofimovic

Philipp Knechtges

Amyspark

Lovell Fuller

Eli Schwartz


Special Thanks

--------------

Artifex software

AlienSkin software

libVIPS

Jan Morovic

Jos Vernon (WebSupergoo)

Harald Schneider (Maxon)

Christian Albrecht

Dimitrios Anastassakis

Lemke Software

Tim Zaman


```

xwd v1.0.7

xwd utility
<pre>

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:
list.h, multiVis.h, wsutils.h, list.c, multiVis.c

Copyright 1994 Hewlett-Packard Co.
Copyright 1996, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

</pre>
IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

IAIK License
<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
   include the following acknowledgment:

   "This product includes software developed by IAIK of Graz University of
    Technology."

   Alternately, this acknowledgment may appear in the software itself, if and
   wherever such third-party
 acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of
   Technology" must not be used to endorse or promote products derived from this
   software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper",
   nor may "IAIK" appear in their name, without prior written permission of
   Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,

INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
xmlsoft.org: libxslt v1.1.34

libxslt License
```

Licence for libxslt except libexslt
----------------------------------------------------------------------
Copyright (C) 2001-2002 Daniel Veillard.  All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is fur-
nished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FIT-
NESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN
 NO EVENT SHALL THE
DANIEL VEILLARD BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CON-
NECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Daniel Veillard shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from him.

----------------------------------------------------------------------

Licence for libexslt
----------------------------------------------------------------------
Copyright (C) 2001-2002 Thomas Broyer, Charlie Bozeman and Daniel Veillard.

All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish,
 distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is fur-
nished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FIT-
NESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CON-
NECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the authors shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from him.
----------------------------------------------------------------------

```
The FreeType Project: Freetype v2.12.1

FreeType Notice

```
FreeType comes with two licenses from which you can choose the one
which fits your needs best.

  The FreeType License (FTL) is the most commonly used one. It is
  a BSD-style license with a credit clause and thus compatible with
  the GNU Public License (GPL) version 3, but not with the
  GPL version 2.

  The GNU General Public License (GPL), version 2. Use it for all
  projects which use the GPLv2 also, or which need a license
  compatible to the GPLv2.

```

FreeType License
```

Copyright (C) 1996-2022 by David Turner, Robert Wilhelm, and Werner Lemberg.

Copyright (C) 2007-2022 by Dereg Clegg and Michael Toftdal.

Copyright (C) 1996-2022 by Just van Rossum, David Turner, Robert Wilhelm, and Werner Lemberg.

Copyright (C) 2004-2022 by Masatake YAMATO and Redhat K.K.

Copyright (C) 2007-2022 by Derek Clegg and Michael Toftdal.

Copyright (C) 2007-2022 by David Turner.

Copyright (C) 2022 by David Turner,
 Robert Wilhelm, Werner Lemberg, and Moazin Khatti.

Copyright (C) 2007-2022 by Rahul Bhalerao <rahul.bhalerao@redhat.com>, <b.rahul.pm@gmail.com>.

Copyright (C) 2008-2022 by David Turner, Robert Wilhelm, Werner Lemberg, and suzuki toshiya.

Copyright (C) 2019-2022 by Nikhil Ramakrishnan, David Turner, Robert Wilhelm, and Werner Lemberg.

Copyright (C) 2009-2022 by Oran Agra and Mickey Gabel.

Copyright (C) 2004-2022 by David Turner, Robert Wilhelm, Werner Lemberg, and George Williams.

Copyright (C) 2004-2022 by Masatake YAMATO, Red Hat K.K.,

Copyright (C) 2003-2022 by Masatake YAMATO, Redhat K.K.,

Copyright (C) 2013-2022 by Google, Inc.

Copyright (C) 2018-2022 by David Turner, Robert Wilhelm, Dominik Rttsches, and Werner Lemberg.

Copyright (C) 2005-2022 by David Turner, Robert Wilhelm, and Werner Lemberg.

Copyright 2013 by Google, Inc.


The FreeType Project LICENSE
 ----------------------------


        2006-Jan-27



   Copyright 1996-2002, 2006 by
    David Turner, Robert Wilhelm, and Werner Lemberg




Introduction
============


The FreeType  Project is distributed in  several archive packages;
some of them may contain, in addition to the FreeType font engine,
various tools and  contributions which rely on, or  relate to, the
FreeType Project.


This  license applies  to all  files found  in such  packages, and
which do not  fall under their own explicit  license.  The license
affects  thus the  FreeType  font  engine, the  test  programs,
documentation and makefiles, at the very least.


This license  was  inspired by  the  BSD,  Artistic,  and  IJG
(Independent JPEG  Group) licenses, which  all encourage inclusion

and use of free software in commercial and freeware products
alike. As a consequence, its main points are that:

  o We don't promise that this software works. However, we will be
    interested in any kind of bug reports. (`as is' distribution)

  o You can use this software for whatever you want, in parts or
    full form, without having to pay us. (`royalty-free' usage)

  o You may not pretend that you wrote this software. If you use
    it, or only parts of it, in a program, you must acknowledge
    somewhere in your documentation that you have used the
    FreeType code. (`credits')

We specifically permit and encourage the inclusion of this
software, with or without modifications, in commercial products.
We disclaim all warranties covering The FreeType Project and
assume no liability related to The FreeType Project.


Finally, many people asked us for a preferred form for a
credit/disclaimer to use in compliance with this license. We thus
encourage you to use the following text:

  """
  Portions of this software are copyright <year> The FreeType
  Project (www.freetype.org). All rights reserved.
  """

Please replace <year> with the
value from the FreeType version you
actually use.


Legal Terms
===========

0. Definitions
--------------

Throughout this license, the terms `package', `FreeType Project',
and `FreeType archive' refer to the set of files originally
distributed by the authors (David Turner, Robert Wilhelm, and
Werner Lemberg) as the `FreeType Project', be they named as alpha,
beta or final release.

`You' refers to the licensee, or person using the project, where
`using' is a generic term including compiling the project's source

code as  well as linking it  to form a  `program' or `executable'.
This  program is  referred to  as  `a program  using the  FreeType
engine'.

This  license applies  to all  files distributed  in  the original
FreeType Project,  including all  source  code, binaries  and
documentation, unless  otherwise stated   in  the  file  in  its
original, unmodified form as  distributed in the original archive.
If you are  unsure whether
or not a particular  file is covered by
this license, you must contact us to verify this.

The FreeType  Project is copyright (C) 1996-2000  by David Turner,
Robert Wilhelm, and Werner Lemberg.  All rights reserved except as
specified below.

1. No Warranty
--------------

THE FREETYPE PROJECT  IS PROVIDED `AS IS' WITHOUT  WARRANTY OF ANY
KIND, EITHER  EXPRESS OR IMPLIED,  INCLUDING, BUT NOT  LIMITED TO,
WARRANTIES  OF  MERCHANTABILITY   AND  FITNESS  FOR  A  PARTICULAR
PURPOSE.  IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE  FOR ANY DAMAGES CAUSED  BY THE USE OR  THE INABILITY TO
USE, OF THE FREETYPE PROJECT.

2. Redistribution
-----------------

This  license  grants  a  worldwide, royalty-free,  perpetual  and
irrevocable right  and license to use,  execute, perform, compile,
display, copy,  create derivative works  of, distribute  and
sublicense the  FreeType Project (in  both source and  object code
forms)  and  derivative
works  thereof  for  any  purpose; and  to
authorize others  to exercise  some or all  of the  rights granted
herein, subject to the following conditions:

  o Redistribution of  source code  must retain this  license file
    (`FTL.TXT') unaltered; any  additions, deletions or changes to
    the original  files must be clearly  indicated in accompanying
    documentation.  The  copyright  notices  of  the  unaltered,
    original  files must  be  preserved in  all  copies of  source
    files.

  o Redistribution in binary form must provide a  disclaimer  that
    states  that  the software is based in part of the work of the
    FreeType Team,  in  the  distribution  documentation.  We also

encourage you to put an URL to the FreeType web page  in  your
documentation, though this isn't mandatory.

These conditions  apply to any  software derived from or  based on
the FreeType Project,  not just the unmodified files.   If you use
our work,
you  must acknowledge us.  However, no  fee need be paid
to us.

3. Advertising
--------------

Neither the  FreeType authors and  contributors nor you  shall use
the name of the  other for commercial, advertising, or promotional
purposes without specific prior written permission.

We suggest,  but do not require, that  you use one or  more of the
following phrases to refer  to this software in your documentation
or advertising  materials: `FreeType Project',  `FreeType Engine',
`FreeType library', or `FreeType Distribution'.

As  you have  not signed  this license,  you are  not  required to
accept it.  However, as  the FreeType  Project  is  copyrighted
material, only  this license, or  another one contracted  with the
authors, grants you  the right to use, distribute,  and modify it.
Therefore,  by  using,  distributing,  or modifying  the  FreeType
Project, you indicate that you understand and accept all the terms
of this license.

4. Contacts
-----------

 There are two mailing lists related to FreeType:

 o freetype@nongnu.org

   Discusses general use and applications of FreeType, as well as
   future and  wanted additions to the  library and distribution.
   If  you are looking  for support,  start in  this list  if you
   haven't found anything to help you in the documentation.

 o freetype-devel@nongnu.org

   Discusses bugs,  as well  as engine internals,  design issues,
   specific licenses, porting, etc.

Our home page can be found at

http://www.freetype.org

```

GPL v2

```

         GNU GENERAL PUBLIC LICENSE
            Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
   51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

         Preamble

 The licenses for most software are designed to take away your
freedom to share and change it.
   By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.)  You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to
 surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

 For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have.  You must make sure that they, too, receive or can get the
source code.  And you must show them these terms so they know their
rights.

 We protect your rights with two steps: (1) copyright the software, and

(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

 Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software.  If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

 Finally,
 any free program is threatened constantly by software
patents.  We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary.  To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

 The precise terms and conditions for copying, distribution and
modification follow.

   GNU GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License.  The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated
 into another
language.  (Hereinafter, translation is included without limitation in
the term "modification".)  Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope.  The act of
running the Program is not restricted, and the output from the Program
is covered only if its contents constitute a work based on the
Program (independent of having been made by running the Program).
Whether that is true depends on what the Program does.

 1. You may copy and distribute verbatim copies of the Program's
source code as you receive it, in any medium, provided that you
conspicuously and appropriately publish on each copy an appropriate
copyright notice and disclaimer of warranty; keep intact all the
notices that refer to this License and to the absence of any warranty;
and give any other recipients of the Program a copy of this License
along with the Program.

You may charge a fee for the physical
 act of transferring a copy, and
you may at your option offer warranty protection in exchange for a fee.

 2. You may modify your copy or copies of the Program or any portion
of it, thus forming a work based on the Program, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices
  stating that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

  c) If the modified program normally reads commands interactively
  when run, you must cause it, when started running for such
  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate
 copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License.  (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each
 and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of

a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid
 for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code.  (This alternative is
  allowed only for noncommercial distribution and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it.  For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable.  However,
 as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

 4. You may not copy, modify, sublicense, or distribute the Program
except as expressly provided under this License.  Any attempt
otherwise to copy, modify, sublicense or distribute the Program is
void, and will automatically terminate your rights under this License.
However, parties who have received copies, or rights, from you under

this License will not have their licenses
 terminated so long as such
parties remain in full compliance.

  5. You are not required to accept this License, since you have not
signed it.  However, nothing else grants you permission to modify or
distribute the Program or its derivative works.  These actions are
prohibited by law if you do not accept this License.  Therefore, by
modifying or distributing the Program (or any work based on the
Program), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

  6. Each time you redistribute the Program (or any work based on the
Program), the recipient automatically receives a license from the
original licensor to copy, distribute or modify the Program subject to
these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

  7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Program at all.  For example, if a patent
license would not permit royalty-free redistribution of the Program by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under
any particular circumstance, the balance of the section is intended to
apply and the section as a whole is intended to apply
 in other
circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system, which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing

to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 8. If the distribution and/or use of the Program is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Program under this License
may add an explicit geographical
 distribution limitation excluding
those countries, so that distribution is permitted only in or among
countries not thus excluded.  In such case, this License incorporates
the limitation as if written in the body of this License.

 9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time.  Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number.  If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation.  If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

 10. If you wish to incorporate parts of the Program into other
 free
programs whose distribution conditions are different, write to the author
to ask for permission.  For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this.  Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

   NO WARRANTY

 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW.  EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU.  SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE

COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

   END OF TERMS AND CONDITIONS

   How to Apply These Terms to Your New Programs

 If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

 To do so, attach the
 following notices to the program.  It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

   <one line to give the program's name and a brief idea of what it does.>
   Copyright (C) <year>  <name of author>

   This program is free software; you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation; either version 2 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   GNU General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program; if not, write to
  the Free Software
   Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year  name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample;
 alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the program
 `Gnomovision' (which makes passes at compilers) written by James Hacker.

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs.  If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library.  If this is what you want to do, use the GNU Library General
Public License instead of this License.

```


Additional Freetype Attributions
```


--------------------------------
The below license applies to the following files:
libfreetype/src/psaux/psarrst.c
libfreetype/src/psaux/psarrst.h
libfreetype/src/psaux/psblues.c
libfreetype/src/psaux/psblues.h
libfreetype/src/psaux/pserror.c
libfreetype/src/psaux/pserror.h
libfreetype/src/psaux/psfixed.h
libfreetype/src/psaux/psfont.c
libfreetype/src/psaux/psfont.h
libfreetype/src/psaux/psft.c
libfreetype/src/psaux/psft.h

libfreetype/src/psaux/psglue.h
libfreetype/src/psaux/pshints.c
libfreetype/src/psaux/pshints.h
libfreetype/src/psaux/psintrp.c
libfreetype/src/psaux/psintrp.h
libfreetype/src/psaux/psread.c
libfreetype/src/psaux/psread.h
libfreetype/src/psaux/psstack.c
libfreetype/src/psaux/psstack.h
libfreetype/src/psaux/pstypes.h

--------------------------------
The below license applies to the following files:
libfreetype/include/freetype/internal/fthash.h
libfreetype/src/base/fthash.c

Copyright 2000 Computing Research Labs, New Mexico State University
Copyright 2001-2015

 Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE
 WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.


```
## PC/SC Lite v1.9.5

### PC/SC Lite License
<pre>

The main parts of the code are using the BSD-like licence bellow:

Copyright (c) 1999-2003 David Corcoran <corcoran@linuxnet.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the
following conditions are met:

   1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following
disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

   3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

Changes to this license can be made only by the copyright author with explicit written consent.

THIS
 SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some source code files are using other licences. See the [COPYING](https://salsa.debian.org/rousseau/PCSC/-/blob/master/COPYING) file for details.

</pre>
## The Unicode Standard, Unicode Character Database, Version 13.0.0

### Unicode Character Database
```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation

(the

 "Software") to deal in the Data Files or Software

without restriction, including without limitation the rights to use,

copy, modify, merge, publish, distribute, and/or sell copies of

the Data Files or Software, and to permit persons to whom the Data Files

or Software are furnished to do so, provided that either

(a) this copyright and permission notice appear with all copies

of the Data Files or Software, or

(b) this copyright and permission notice appear in associated

Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF

ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE

WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT OF THIRD PARTY RIGHTS.

IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS

NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL

DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,

DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE

 OR OTHER

TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR

PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder

shall not be used in advertising or otherwise to promote the sale,

use or other dealings in these Data Files or Software without prior

written authorization of the copyright holder.

```
## jQuery UI v1.12.1

### jQuery UI License
```
Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many

individuals. For exact contribution history, see the revision history

available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as

documented below:

====

Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code contained within the demos directory.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

```
## Eastman Kodak Company: Portions of color management and imaging software

### Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
## Thai Dictionary

### Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

</pre>
## Apache Santuario v2.3.0

### Apache Santuario Notice
<pre>

 Apache Santuario - XML Security for Java
 Copyright 1999-2021 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).

 It was originally based on software copyright (c) 2001, Institute for
 Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

 The development of this software was partly funded by the European
 Commission in the <WebSig> project in the ISIS Programme.

</pre>

### Apache 2.0 License
<pre>

                    Apache License
              Version 2.0, January 2004
            http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

---

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity
authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object
code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a

   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that
do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from
the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not
grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
  agreed to in writing, Licensor provides the Work (and each
  Contributor provides its Contributions) on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
  implied, including, without limitation, any warranties or conditions
  of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
  PARTICULAR PURPOSE. You are solely responsible for determining the
  appropriateness of using or redistributing the Work and assume any
  risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
  whether in tort (including negligence), contract, or otherwise,
  unless
 required by applicable law (such as deliberate and grossly
  negligent acts) or agreed to in writing, shall any Contributor be
  liable to You for damages, including any direct, indirect, special,
  incidental, or consequential damages of any character arising as a
  result of this License or out of the use or inability to use the
  Work (including but not limited to damages for loss of goodwill,
  work stoppage, computer failure or malfunction, or any and all
  other commercial damages or losses), even if such Contributor
  has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
  the Work or Derivative Works thereof, You may choose to offer,
  and charge a fee for, acceptance of support, warranty, indemnity,
  or other liability obligations and/or rights consistent with this
  License. However, in accepting such obligations, You may act only
  on Your own behalf and on Your sole responsibility, not on
 behalf
  of any other Contributor, and only if You agree to indemnify,
  defend, and hold each Contributor harmless for any liability
  incurred by, or claims asserted against, such Contributor by reason
  of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

  To apply the Apache License to your work, attach the following
  boilerplate notice, with the fields enclosed by brackets "[]"
  replaced with your own identifying information. (Don't include
  the brackets!)  The text should be enclosed in the appropriate
  comment syntax for the file format. We also recommend that a
  file or class name and description of purpose be included on the
  same "printed page" as the copyright notice for easier
  identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except
 in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
## Independent JPEG Group (IJG) JPEG v9d

### IJG License
```

/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*/

[From the README file]
The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose. This software is provided "AS IS", and you,
its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2020, Thomas G. Lane, Guido Vollbeding.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this
software (or portions thereof) for any purpose, without fee, subject to these
conditions:
(1) If any part of the source code for this software is distributed, then this
README
 file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived from
it. This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage
 the use of this software as the basis of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

```

ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are
subject to the following clarification and special exception to the GPLv2,
based on the GNU Project exception for its Classpath libraries, known as the
GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software
package.  Some of those programs are provided under licenses deemed
incompatible with the GPLv2 by the Free Software Foundation and others.
For example, the package includes programs licensed under the Apache
License, Version 2.0 and may include FreeType. Such programs are licensed
to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the
Classpath Exception to the necessary parts of its GPLv2 code, which permits
you to use that code in combination with other independent modules not
licensed under the GPLv2. However, note that this would
 not permit you to
commingle code under an incompatible license with Oracle's GPLv2 licensed
code by, for example, cutting and pasting such code into a file also
containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the
files to which it applies and distribute the result, you would likely be
required to license some or all of the other code in that distribution under

the GPLv2 as well, and since the GPLv2 is incompatible with the license terms
of some items included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to further
distribute the package.

Failing to distribute notices associated with some files may also create
unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer
skilled in open source matters before removing the Classpath Exception or
making modifications
 to this package which may subsequently be redistributed
and/or involve the use of third party software.
## OASIS PKCS #11 Cryptographic Token Interface v3.0

### OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright  OASIS Open 2020. All Rights Reserved.

   All capitalized terms in the following text have the meanings
assigned to them in the OASIS Intellectual Property Rights Policy (the
"OASIS IPR Policy"). The full Policy may be found at the OASIS website:
[http://www.oasis-open.org/policies-guidelines/ipr]

   This document and translations of it may be copied and furnished to
others, and derivative works that comment on or otherwise explain it or
assist in its implementation may be prepared, copied, published, and
distributed, in whole or in part, without restriction of any kind,
provided that the above copyright notice and this section are included
on all such copies and derivative works. However, this document itself
may not be modified in any way, including by removing the copyright
notice or references to OASIS, except as needed for the purpose of
developing any
 document or deliverable produced by an OASIS Technical
Committee (in which case the rules applicable to copyrights, as set
forth in the OASIS IPR Policy, must be followed) or as required to
translate it into languages other than English.

   The limited permissions granted above are perpetual and will not be
revoked by OASIS or its successors or assigns.

   This document and the information contained herein is provided on an
"AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED,
INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE
INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED
WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS
AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR

CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY
PART THEREOF.

   [OASIS requests that any OASIS Party or any other party that
believes it has patent claims that would necessarily be infringed by
implementations
 of this OASIS Standards Final Deliverable, to notify
OASIS TC Administrator and provide an indication of its willingness to
grant patent licenses to such patent claims in a manner consistent with
the IPR Mode of the OASIS Technical Committee that produced this
deliverable.]

   [OASIS invites any party to contact the OASIS TC Administrator if it
is aware of a claim of ownership of any patent claims that would
necessarily be infringed by implementations of this OASIS Standards
Final Deliverable by a patent holder that is not willing to provide a
license to such patent claims in a manner consistent with the IPR Mode
of the OASIS Technical Committee that produced this OASIS Standards
Final Deliverable. OASIS may include such claims on its website, but
disclaims any obligation to do so.]

   [OASIS takes no position regarding the validity or scope of any
intellectual property or other rights that might be claimed to pertain
to the implementation or use of the technology
 described in this OASIS
Standards Final Deliverable or the extent to which any license under
such rights might or might not be available; neither does it represent
that it has made any effort to identify any such rights. Information on
OASIS' procedures with respect to rights in any document or deliverable
produced by an OASIS Technical Committee can be found on the OASIS
website. Copies of claims of rights made available for publication and
any assurances of licenses to be made available, or the result of an
attempt made to obtain a general license or permission for the use of
such proprietary rights by implementers or users of this OASIS Standards
Final Deliverable, can be obtained from the OASIS TC Administrator.
OASIS makes no representation that any information or list of
intellectual property rights will at any time be complete, or that any
claims in such list are, in fact, Essential Claims.]

</pre>
## DOM Level 3 Core Specification v1.0

### W3C Software Notice
<pre>
Copyright  2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and License.
The software license requires "Notice of any changes or modifications to the W3C
files, including the date changes were made." Consequently, modified versions of
the DOM bindings must document that they do not conform to the W3C standard; in the
case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the
case of the Java language binding, the package names can no longer be in the
'org.w3c' package.
</pre>

### W3C License
<pre>

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided
 by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee)
agree that you have read, understood, and will comply with the following terms
and conditions.

Permission to copy, modify, and distribute this software and its
documentation, with or without modification, for any purpose and without fee
or royalty is hereby granted, provided that you include the following on ALL
copies of the software and documentation or portions thereof, including
modifications:

 1.The full text of this NOTICE in a location viewable to users of the
 redistributed or derivative work.

 2.Any pre-existing intellectual property disclaimers, notices, or terms and
 conditions. If none exist, the W3C Software Short Notice should be included
 (hypertext is preferred, text is permitted) within the body of any
 redistributed or derivative code.

 3.Notice of any changes or modifications to the files, including the date
 changes were made.
 (We recommend you provide URIs to the location from
 which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS
MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR
PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY
THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL
OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR
DOCUMENTATION.  The name and trademarks of copyright holders may NOT be used
in advertising or publicity pertaining to the software without specific,
written prior permission. Title to copyright in this software and any
associated documentation will at all times remain with copyright holders.

_____

This formulation of W3C's notice and license became active on December 31
2002. This
 version removes the copyright ownership notice such that this
license can be used with materials other than those owned by the W3C, reflects
that ERCIM is now a host of the W3C, includes references to this specific
dated version of the license, and removes the ambiguous grant of "use".
Otherwise, this version is the same as the previous version and is written so
as to preserve the Free Software Foundation's assessment of GPL compatibility
and OSI's certification under the Open Source Definition. Please see our
Copyright FAQ for common questions about using materials from our site,
including specific terms and conditions for packages like libwww, Amaya, and
Jigsaw. Other questions about this notice can be directed to
site-policy@w3.org.

</pre>

OPENJDK ASSEMBLY EXCEPTION

The OpenJDK source code made available by Oracle America, Inc. (Oracle) at
openjdk.java.net ("OpenJDK Code") is distributed under the terms of the GNU
General Public License <http://www.gnu.org/copyleft/gpl.html> version 2
only ("GPL2"), with the following clarification and special exception.

  Linking this OpenJDK Code statically or dynamically with other code
  is making a combined work based on this library.  Thus, the terms
  and conditions of GPL2 cover the whole combination.

  As a special exception, Oracle gives you permission to link this
  OpenJDK Code with certain code licensed by Oracle as indicated at
  http://openjdk.java.net/legal/exception-modules-2007-05-08.html
  ("Designated Exception Modules") to produce an executable,
  regardless of the license terms of the Designated Exception Modules,
  and to copy and distribute the resulting executable under GPL2,
  provided that the Designated Exception Modules continue to be
   governed by the licenses under which they were offered by Oracle.

As such, it allows licensees and sublicensees of Oracle's GPL2 OpenJDK Code
to build an executable that includes those portions of necessary code that
Oracle could not provide under GPL2 (or that Oracle has provided under GPL2

with the Classpath exception).  If you modify or add to the OpenJDK code,
that new GPL2 code may still be combined with Designated Exception Modules
if the new code is made subject to this exception by its copyright holder.
## Cryptix AES v3.2.0

### Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 1. Redistributions of source code must retain the copyright notice,
    this list of conditions and the following disclaimer.

 2. Redistributions in binary form must reproduce the above copyright
    notice, this list of conditions and the following disclaimer in
    the documentation and/or other materials provided with the
    distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND
CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## libpng v1.6.38

### libpng License
<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2

--------------------------------------

Copyright (c) 1995-2022 The PNG Reference Library Authors.
Copyright (c) 2018-2022 Cosmin Truta
Copyright (c) 1998-2018 Glenn Randers-Pehrson
Copyright (c) 1996-1997 Andreas Dilger
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby
 granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.


PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)

-----------------------------------------------------------------------

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the
 same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

  Simon-Pierre Cadieux
  Eric S. Raymond

Mans Rullgard

Cosmin Truta

Gilles Vollant

James Yu

Mandar Sahastrabuddhe

Google Inc.

Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of
the library or against infringement.  There is no warranty that our
efforts or the library will fulfill any of your particular purposes
or needs.  This library is provided with all faults, and the entire
risk of satisfactory quality, performance, accuracy, and effort is
with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000
 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

Tom Lane

Glenn Randers-Pehrson

Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

John Bowler

Kevin Bracey

Sam Bushell

Magnus Holmgren

Greg Roelofs

Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

   Andreas Dilger
   Dave Martindale
   Guy Eric Schalnat
   Paul Schmidt
   Tim Wegner

The PNG Reference Library is supplied "AS IS".  The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose.  The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
   be misrepresented as being the original source.

3. This Copyright notice may not be removed or
 altered from any
   source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products.  If you use
this source code in a product, acknowledgment is not required but would
be appreciated.

TRADEMARK
=========

The name "libpng" has not been registered by the Copyright owners
as a trademark in any jurisdiction.  However, because libpng has
been distributed and maintained world-wide, continually since 1995,
the Copyright owners claim "common-law trademark protection" in any
jurisdiction where common-law trademark is recognized.

</pre>

### AUTHORS File Information
```

PNG REFERENCE LIBRARY AUTHORS
=============================

This is the list of PNG Reference Library ("libpng") Contributing
Authors, for copyright and licensing purposes.

* Andreas Dilger
* Cosmin Truta
* Dave Martindale
* Eric S. Raymond
* Gilles Vollant
 * Glenn Randers-Pehrson
* Greg Roelofs
* Guy Eric Schalnat
* James Yu
* John Bowler
* Kevin Bracey
* Magnus Holmgren
* Mandar Sahastrabuddhe
* Mans Rullgard
* Matt Sarett
* Mike Klein
* Pascal Massimino
* Paul Schmidt
* Qiang Zhou
* Sam Bushell
* Samuel Williams
* Simon-Pierre Cadieux
* Tim Wegner
* Tom Lane
* Tom Tanner
* Vadim Barkov
* Willem van Schaik
* Zhijie Liang
* Arm Holdings
  - Richard Townsend
* Google Inc.
  - Matt Sarett
  - Mike Klein
  - Dan Field
  - Sami Boukortt

The build projects, the build scripts, the test scripts, and other

files in the "ci", "projects", "scripts" and "tests" directories, have
other copyright owners, but are released under the libpng license.

Some files in the "contrib" directory, and some tools-generated files
that are distributed with libpng, have other copyright owners, and are
released under other open source licenses.
```
## Microsoft DirectShow Samples v156905

### MIT License (MIT)
```

Copyright (c) 1992-2004 Microsoft Corporation. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY,
 WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

```
## jopt-simple v5.0.4

### MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
## jQuery v3.6.1

### jQuery License
```

jQuery v 3.6.1
Copyright OpenJS Foundation and other contributors, https://openjsf.org/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
 IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

****

The jQuery JavaScript Library v3.6.1 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons
 to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

****

```
## Apache Xalan v2.7.2

### Apache Xalan Notice
<pre>

=========================================================================
====
  ==  NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==

== in this case for the Apache Xalan distribution.                    ==
========================================================================
====


This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).


Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
the source from the packages that are part of the XSLTC sources.


Portions of this software was originally based on the following:

  - software copyright (c) 1999-2002, Lotus Development Corporation.,
http://www.lotus.com.
  - software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
  - software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
  - voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
    Apache Software Foundation and was originally developed at Hewlett Packard Company.


</pre>


### Apache 2.0 License
<pre>


                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/


TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION


1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity authorized by
  the copyright owner that is granting the License.

  "Legal Entity" shall mean the union of the acting entity and all
  other entities that control,
 are controlled by, or are under common
  control with that entity. For the purposes of this definition,
  "control" means (i) the power, direct or indirect, to cause the
  direction or management of such entity, whether by contract or
  otherwise, or (ii) ownership of fifty percent (50%) or more of the
  outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made
available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright
owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare
Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.


3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement,
then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.


4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

  (a) You must give any other recipients of the Work or
      Derivative Works a copy of this License; and

  (b) You must cause any modified files to carry prominent notices
      stating that You changed the files; and

  (c) You must retain, in the Source form of any Derivative Works
      that You distribute, all copyright, patent, trademark, and
      attribution notices from the Source form of the Work,
      excluding those notices that do not pertain to any part of
      the Derivative Works; and

  (d) If the Work includes a "NOTICE" text file as part of its
      distribution, then any Derivative
Works that You distribute must
      include a readable copy of the attribution notices contained
      within such NOTICE file, excluding those notices that do not
      pertain to any part of the Derivative Works, in at least one
      of the following places: within a NOTICE text file distributed
      as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

  You may add Your own copyright statement
 to Your modifications and
  may provide additional or different license terms and conditions
  for use, reproduction, or distribution of Your modifications, or
  for any such Derivative Works as a whole, provided Your use,
  reproduction, and distribution of the Work otherwise complies with
  the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
  any Contribution intentionally submitted for inclusion in the Work
  by You to the Licensor shall be under the terms and conditions of
  this License, without any additional terms or conditions.
  Notwithstanding the above, nothing herein shall supersede or modify
  the terms of any separate license agreement you may have executed
  with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
  names, trademarks, service marks, or product names of the Licensor,
  except as required for reasonable and customary use in describing
 the
  origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
  agreed to in writing, Licensor provides the Work (and each
  Contributor provides its Contributions) on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
  implied, including, without limitation, any warranties or conditions
  of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
  PARTICULAR PURPOSE. You are solely responsible for determining the
  appropriateness of using or redistributing the Work and assume any
  risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
  whether in tort (including negligence), contract, or otherwise,
  unless required by applicable law (such as deliberate and grossly
  negligent acts) or agreed to in writing, shall any Contributor be
  liable to You for damages, including

any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted
against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to
in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability
 and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>
## GIFLIB v5.2.1

### GIFLIB License
```

The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

https://sourceforge.net/p/giflib/code/ci/master/tree/openbsd-reallocarray.c

CUP Parser Generator for Java v 0.11b

CUP Parser Generator License

The GNU General Public License (GPL)

Version 2, June 1991

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share
and change it. By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users. This General Public License applies to
most of the Free Software Foundation's software and to any other program whose
authors commit to using it. (Some other Free Software Foundation software is
covered by the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our
General Public Licenses are designed to make sure that
 you have the freedom to
distribute copies of free software (and charge for this service if you wish),
that you receive source code or can get it if you want it, that you can change
the software or use pieces of it in new free programs; and that you know you
can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny
you these rights or to ask you to surrender the rights. These restrictions
translate to certain responsibilities for you if you distribute copies of the
software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for
a fee, you must give the recipients all the rights that you have. You must
make sure that they, too, receive or can get the source code. And you must
show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2)
offer you this license which gives you legal permission to copy, distribute
and/or modify the software.

Also,
 for each author's protection and ours, we want to make certain that
everyone understands that there is no warranty for this free software. If the
software is modified by someone else and passed on, we want its recipients to
know that what they have is not the original, so that any problems introduced
by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We
wish to avoid the danger that redistributors of a free program will
individually obtain patent licenses, in effect making the program proprietary.

To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be
 distributed under the terms of
this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided
 that you conspicuously and
appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

  a) You must cause the modified files to carry prominent notices stating
  that you changed the files and the date of any change.

  b) You must cause any work that you distribute or publish, that in whole or
  in part contains or is derived from the Program or any part thereof, to
be
  licensed as a whole at no charge to all third parties under the terms of

this License.

  c) If the modified program normally reads commands interactively when run,
  you must cause it, when started running for such interactive use in the
  most ordinary way, to print or display an announcement including an
  appropriate copyright notice and a notice that there is no warranty (or
  else, saying that you provide a warranty) and that users may redistribute
  the program under these conditions, and telling the user how to view a copy
  of this License. (Exception: if the Program itself is interactive but does
  not normally print such an announcement, your work based on the Program is
  not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable
sections of that work are not derived from the Program, and can be reasonably
considered independent and separate works in themselves, then this License, and
its
 terms, do not apply to those sections when you distribute them as separate
works. But when you distribute the same sections as part of a whole which is a
work based on the Program, the distribution of the whole must be on the terms
of this License, whose permissions for other licensees extend to the entire
whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your
rights to work written entirely by you; rather, the intent is to exercise the
right to control the distribution of derivative or collective works based on
the Program.

In addition, mere aggregation of another work not based on the Program with the
Program (or with a work based on the Program) on a volume of a storage or
distribution medium does not bring the other work under the scope of this
License.

3. You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of Sections
 1 and
2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable source
  code, which must be distributed under the terms of Sections 1 and 2 above
  on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three years, to
  give any third party, for a charge no more than your cost of physically
  performing source distribution, a complete machine-readable copy of the
  corresponding source code, to be distributed under the terms of Sections 1
  and 2 above on a medium customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer to

distribute corresponding source code. (This alternative is allowed only
for noncommercial distribution and only if you received the program in
object code or executable form with such an offer, in accord with
Subsection b above.)

The source
 code for a work means the preferred form of the work for making
modifications to it. For an executable work, complete source code means all
the source code for all modules it contains, plus any associated interface
definition files, plus the scripts used to control compilation and installation
of the executable. However, as a special exception, the source code
distributed need not include anything that is normally distributed (in either
source or binary form) with the major components (compiler, kernel, and so on)
of the operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source
code from the same place counts as distribution of the source code, even though
third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute
 the Program except as
expressly provided under this License. Any attempt otherwise to copy, modify,
sublicense or distribute the Program is void, and will automatically terminate
your rights under this License. However, parties who have received copies, or
rights, from you under this License will not have their licenses terminated so
long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it.
However, nothing else grants you permission to modify or distribute the Program
or its derivative works. These actions are prohibited by law if you do not
accept this License. Therefore, by modifying or distributing the Program (or
any work based on the Program), you indicate your acceptance of this License to
do so, and all its terms and conditions for copying, distributing or modifying
the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program),
the recipient automatically
 receives a license from the original licensor to
copy, distribute or modify the Program subject to these terms and conditions.
You may not impose any further restrictions on the recipients' exercise of the
rights granted herein. You are not responsible for enforcing compliance by
third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues), conditions
are imposed on you (whether by court order, agreement or otherwise) that

contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you,
 then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make
 thoroughly clear what is believed to be a
consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the
 terms and conditions either of
that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs
whose distribution conditions are different, write to the author to ask for
permission. For software which is copyrighted by the Free Software Foundation,
write to the Free Software Foundation; we sometimes make exceptions for this.
Our decision will be guided by the two goals of preserving the free status of
all derivatives of our free software and of promoting the sharing and reuse of
software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR
THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE
STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE
PROGRAM "AS IS"
 WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND
PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE,
YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL
ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE
THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR
INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA
BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER
OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How
 to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible
use to the public, the best way to achieve this is to make it free software
which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach
them to the start of each source file to most effectively convey the exclusion
of warranty; and each file should have at least the "copyright" line and a
pointer to where the full notice is found.

   One line to give the program's name and a brief idea of what it does.

   Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your option)
any later version.

This program is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it
starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free
software, and you are welcome to redistribute it under certain conditions;
type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be
called something
 other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school,
if any, to sign a "copyright disclaimer" for the program, if necessary. Here
is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General Public
License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are subject to the following
 clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's header
the words "Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this code."

  Linking this library statically or dynamically with other modules is making
  a combined work based on this library. Thus, the terms and conditions of
  the GNU General Public License cover the whole combination.

  As a special exception, the copyright holders of this library give you
  permission to link this library with independent modules to produce an
  executable, regardless of the license terms of these independent modules,
  and to copy and distribute the resulting executable under terms of your
  choice, provided that you also meet, for each linked independent module,
  the terms and conditions of the license of that module. An independent
  module is a module
 which is not derived from or based on this library. If
  you modify this library, you may extend this exception to your version of
  the library, but you are not obligated to do so. If you do not wish to do
  so, delete this exception statement from your version.
Apache Commons Byte Code Engineering Library (BCEL) Version 6.5.0

Apache Commons BCEL Notice
<pre>

  Apache Commons BCEL
  Copyright 2004-2020 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (https://www.apache.org/).

</pre>

Apache 2.0 License
<pre>

                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity.
For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is
included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"

means any

form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense,
and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for
that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative Works that You distribute must
    include a readable copy of the attribution
notices contained
    within such NOTICE file, excluding those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms
and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE
   file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
   whether in tort (including negligence), contract, or otherwise,
   unless required by applicable law (such as deliberate and grossly
   negligent acts) or agreed to in writing, shall any Contributor be
   liable to You for damages, including any direct, indirect, special,
   incidental, or consequential damages
 of any character arising as a
   result of this License or out of the use or inability to use the
   Work (including but not limited to damages for loss of goodwill,
   work stoppage, computer failure or malfunction, or any and all
   other commercial damages or losses), even if such Contributor
   has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
   the Work or Derivative Works thereof, You may choose to offer,
   and charge a fee for, acceptance of support, warranty, indemnity,
   or other liability obligations and/or rights consistent with this
   License. However, in accepting such obligations, You may act only
   on Your own behalf and on Your sole responsibility, not on behalf
   of any other Contributor, and only if You agree to indemnify,
   defend, and hold each Contributor harmless for any liability
   incurred by, or claims asserted against, such Contributor by reason
   of your accepting any such warranty
 or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

   To apply the Apache License to your work, attach the following
   boilerplate notice, with the fields enclosed by brackets "[]"
   replaced with your own identifying information. (Don't include
   the brackets!) The text should be enclosed in the appropriate
   comment syntax for the file format. We also recommend that a
   file or class name and description of purpose be included on the
   same "printed page" as the copyright notice for easier
   identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS
 IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
WebKit Open Source Project: WebKit v610.2

WebKit Notice
```

You are receiving a copy of WebKit in either source or
object code in the JavaFX runtime or JavaFX SDK. The terms of the
Oracle license do NOT apply to WebKit; it is
licensed under the following license, separately from the Oracle programs
you receive. If you do not wish to install this library, you may delete
this library:

  - On Linux systems: delete $(JAVA_HOME)/lib/libjfxwebkit.so
  - On Mac OS X systems: delete $(JAVA_HOME)/lib/libjfxwebkit.dylib
  - On Windows systems: delete $(JAVA_HOME)\bin\jfxwebkit.dll

A copy of the Oracle modified WebKit library source code is located
in the following OpenJDK git repository:

  https://github.com/openjdk/jfx

You can use git to clone the repository or you can browse the
source using a web browser. The root directory of the WebKit source
code is here:

  rt/modules/javafx.web/src/main/native/
```

### LGPL 2.1
```

              GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

                    Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest
 you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients
 all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software patents pose a constant threat to the existence
 of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its
 criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this

case, there is little to gain by limiting the free library to free
software only, so we use the
 Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

        GNU LESSER GENERAL PUBLIC
LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included
 without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated

interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately
 publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the terms of this License.

  d) If a facility in the modified
Library refers to a function or a
   table of data to be supplied by an application program that uses
   the facility, other than as an argument passed when the facility
   is invoked, then you must make a good faith effort to ensure that,
   in the event an application does not supply such function or
   table, the facility still operates, and performs whatever part of
   its purpose remains meaningful.

   (For example, a function in a library to compute square roots has
   a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works
 in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License
 to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which

must
 be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered
 by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any
 executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany the work with the complete corresponding
  machine-readable
 source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
  Library. A suitable mechanism is one that (1) uses at run time a
  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)
  will operate properly with a modified version of the library, if
   the user installs one, as long as the modified version is
  interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials
  specified in Subsection 6a, above, for a charge no more
  than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
  from a designated place, offer equivalent access to copy the above
  specified materials from the same place.

  e) Verify that the user has already received a copy of these
  materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form)

with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed
under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying
or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the

original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you
 cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices.
  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish revised and/or new

versions of the Lesser General
 Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free
 status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL,
 SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

  If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

  To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file
 should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact
 you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

```

## Unicode Common Local Data Repository (CLDR) v39

### CLDR License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2021 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal
 in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION,

ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

-- Terms of Use --
-

Unicode Copyright and Terms of Use
For the general privacy policy governing access to this site, see the Unicode Privacy Policy.

Unicode Copyright
Copyright 1991-2021 Unicode, Inc. All rights reserved.
Definitions
Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:
https://www.unicode.org/Public/

Unicode
 Software ("SOFTWARE") includes any source code published in the Unicode Standard
or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/
Terms of Use
Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person
is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the
Unicode Standard, subject to Terms and Conditions herein.
Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject
to the Terms and Conditions herein.
Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE
can be found in the Unicode Data Files and Software License.
Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book
editions
 (Unicode 5.0 and earlier), these are found on the back of the title page.
The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page
of each PDF code chart.
All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under
these general Terms of Use.
No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government

is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR

SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and

damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire

 Agreement. This Agreement constitutes the entire agreement between the parties.


```

## ASM Bytecode Manipulation Framework v8.0.1

### ASM License
<pre>

Copyright (c) 2000-2011 France Tlcom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## Dynalink v.5

### Dynalink License
<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT SHALL COPYRIGHT HOLDER
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## GNU Glib v2.66.7

### Glib Notice
```

You are receiving a copy of GNU Glib, Version: 2.66.7 in either source or
object code in the JavaFX runtime or JavaFX SDK. The terms of the
Oracle license do NOT apply to the GNU Glib, Version: 2.66.7; it is
licensed under the following license, separately from the Oracle programs
you receive. If you do not wish to install this library, you may delete
this library:

 - On Linux systems: N/A (library is not present)
 - On Mac OS X systems: delete $(JAVA_HOME)/lib/libglib-lite.dylib
 - On Windows systems: delete $(JAVA_HOME)\bin\glib-lite.dll

A copy of the Oracle modified GNU Glib library source code is located

in the following OpenJDK git repository:

  https://github.com/openjdk/jfx

You can use git to clone the repository or you can browse the
source using a web browser. The root directory of the GNU Glib source
code is here:

  rt/modules/javafx.media/src/main/native/gstreamer/3rd_party/glib/


```


### LGPL 2.1
```


    GNU LESSER GENERAL PUBLIC LICENSE
                 Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

                Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.
 You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get

it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies of the library, whether gratis
or
 for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

 Finally, software patents pose
 a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking

only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library
 to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

        GNU LESSER GENERAL PUBLIC LICENSE
 TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language.
  (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you
 conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

 d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered
 independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General
 Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

  Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

  This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

  4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable
 source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

  If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

  5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

  However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library".
  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

  When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

  If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the object code for
 the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany the work with
 the complete corresponding
   machine-readable source code for the Library including whatever
   changes were used in the work (which must be distributed under
   Sections 1 and 2 above); and, if the work is an executable linked
   with the Library, with the complete machine-readable "work that
   uses the Library", as object code and/or source code, so that the
   user can modify the Library and then relink to produce a modified
   executable containing the modified Library. (It is understood
   that the user who changes the contents of definitions files in the
   Library will not necessarily be able to recompile the application
   to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
   Library. A suitable mechanism is one that (1) uses at run time a
   copy of the library already present on the user's computer system,
   rather than copying library functions into the executable, and (2)
   will operate properly with a
 modified version of the library, if
   the user installs one, as long as the modified version is
   interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed
 (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

 It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

 7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any other library
   facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

 8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or

distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

 9. You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept
 this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

 10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

 11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the
 conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented
 by public license practices. Many people have made
generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation may publish revised and/or
 new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided
 by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

<div align="center">NO WARRANTY</div>

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

  16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR
 DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the
 exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

  <one line to give the library's name and a brief idea of what it does.>
  Copyright (C) <year> <name of author>

  This library is free software; you can redistribute it and/or
  modify it under the terms of the GNU Lesser General Public
  License as published by the Free Software Foundation; either
  version 2.1 of the License, or (at your option) any later version.

  This library is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
  Lesser General Public License for more details.

  You should have received a copy of the GNU Lesser General Public
  License along with this library; if not, write to the Free Software
  Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also
 add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

```
## IBM International Components for Unicode (ICU4C) v68.2

### ICU License
```

COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE
 PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,

DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

Third-Party Software Licenses

This section contains third-party software notices and/or additional terms for licensed third-party software components included within ICU libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
 AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use

or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.

2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

The Google Chrome software developed by Google is licensed under
the BSD license. Other software included in this distribution is
provided under other licenses, as set forth
 below.
#
The BSD License
http://opensource.org/licenses/bsd-license.php
Copyright (C) 2006-2008, Google Inc.
#
All rights reserved.
#
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
#
Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided with
the distribution.
Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
#
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED
 TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
#

The word list in cjdict.txt are generated by combining three word lists

listed below with further processing for compound word breaking. The

frequency is generated with an iterative training against Google web

corpora.

#

* Libtabe (Chinese)

- https://sourceforge.net/project/?group_id=1519

- Its license terms and conditions

are shown below.

#

* IPADIC (Japanese)

- http://chasen.aist-nara.ac.jp/chasen/distribution.html

- Its license terms and conditions are shown below.

#

---------COPYING.libtabe ---- BEGIN-------------------

#

/*

* Copyright (c) 1999 TaBE Project.

* Copyright (c) 1999 Pai-Hsiang Hsiao.

* All rights reserved.

*

* Redistribution and use in source and binary forms, with or without

* modification, are permitted provided that the following conditions

* are met:

*

* . Redistributions of source code must retain the above copyright

*   notice, this list of conditions and the following disclaimer.

* . Redistributions in binary form must reproduce the above copyright

*   notice, this list of conditions and the following disclaimer in

*   the documentation and/or other materials provided with the

*   distribution.

* . Neither the name of the TaBE Project nor the names of its

*   contributors

may be used to endorse or promote products derived

*   from this software without specific prior written permission.

*

* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

* "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS

* FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE

* REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,

* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES

* (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR

* SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,

* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED

* OF THE POSSIBILITY OF SUCH DAMAGE.

organization that participated in or was otherwise related to the
development of the program and their respective officials, directors,
officers and other employees shall be held liable for any and all
damages, including, without limitation, general,
 special, incidental
and consequential damages, arising out of or otherwise in connection
with the use or inability to use the program or any product, material
or result produced or otherwise obtained by using the program,
regardless of whether they have been advised of, or otherwise had
knowledge of, the possibility of such damages at any time during the
project or thereafter. Each user will be deemed to have agreed to the
foregoing by his or her commencement of use of the program. The term
"use" as used herein includes, but is not limited to, the use,
modification, copying and distribution of the program and the
production of secondary products from the program.
#
In the case where the program, whether in its original form or
modified, was distributed or delivered to or received by a user from
any person, organization or entity other than ICOT, unless it makes or
grants independently of ICOT any specific warranty to the user in
 # writing, such person, organization or entity, will also be exempted
from and not be held liable to the user for any such damages as noted
above as far as the program is concerned.
#
---------------COPYING.ipadic-----END--------------------------------

3. Lao Word Break Dictionary Data (laodict.txt)

Copyright (c) 2013 International Business Machines Corporation
and others. All Rights Reserved.
#
Project: https://github.com/veer66/lao-dictionary
Dictionary: https://github.com/veer66/lao-dictionary/blob/master/Lao-Dictionary.txt
License: https://github.com/veer66/lao-dictionary/blob/master/Lao-Dictionary-LICENSE.txt
(copied below)
#
This file is derived from the above dictionary, with slight
modifications.
--
Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
All rights reserved.
#
Redistribution and use in source and binary forms,
 with or without
modification,
are permitted provided that the following conditions are met:
#
#

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer. Redistributions in
binary form must reproduce the above copyright notice, this list of
conditions and the following disclaimer in the documentation and/or
other materials provided with the distribution.
#
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 # HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.
---

4. Burmese Word Break Dictionary Data (burmesedict.txt)

Copyright (c) 2014 International Business Machines Corporation
and others. All Rights Reserved.
#
This list is part of a project hosted at:
github.com/kanyawtech/myanmar-karen-word-lists
#

Copyright (c) 2013, LeRoy Benjamin Sharon
All rights reserved.
#
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met: Redistributions of source code must retain the above
copyright notice, this list of conditions
 and the following
disclaimer. Redistributions in binary form must reproduce the
above copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.
#
Neither the name Myanmar Karen Word Lists, nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND

5. Time Zone Database

 ICU uses the public domain data and code derived from Time Zone
Database for its time zone support. The ownership of the TZ database
is explained in BCP 175: Procedure for Maintaining the Time Zone
Database section 7.

7. Database Ownership
#
The TZ database itself is not an IETF Contribution or an IETF
document. Rather it is a pre-existing and regularly updated work
that is in the public domain, and is intended to remain in the
public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
not apply to the TZ Database or contributions that individuals make
to it.
  Should any claims be made and substantiated against the TZ
Database, the organization that is providing the IANA
Considerations defined in this RFC, under the memorandum of
understanding with the IETF, currently ICANN, may act in accordance
with all competent court orders. No ownership claims will be made
by ICANN or the IETF Trust on the database or the code. Any person
making a contribution to the database or code waives all rights to
future claims in that contribution or in the TZ Database.

6. Google double-conversion

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
    notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
   copyright
 notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.
 * Neither the name of Google Inc. nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
 IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```

## Independent JPEG Group: JPEG release 6b

### JPEG License

```

****

Copyright (C) 1991-1998, Thomas G. Lane.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose. This software is provided "AS IS",
and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute

this software (or portions thereof) for any purpose,
 without fee,
subject to these conditions:

(1) If any part of the source code for this software is distributed,
then this README file must be included, with this copyright and no-warranty
notice unaltered; and any additions, deletions, or changes to the original
files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation
must state that "this software is based in part on the work of the
Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products
 derived
from it. This software may be referred to only as "the Independent JPEG
Group's software".

We specifically permit and encourage the use of this software as the basis
of commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding
cannot legally be used without obtaining one or more licenses. For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the
 GIF writer has been simplified to
produce "uncompressed GIFs". This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated. GIF(sm) is a
Service Mark property of CompuServe Incorporated."

****
```
## LibFFI v3.3

### LibFFI License
```

libffi - Copyright (c) 1996-2019 Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER
 LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
## International Components for Unicode (ICU4J) v67.1

### ICU4J License
```

COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation

(the "Software") to deal in the Data Files or Software

without restriction, including without limitation the rights to use,

copy, modify, merge, publish, distribute, and/or sell copies of

the Data Files or Software, and to permit persons to whom the Data Files

or Software are furnished to do so, provided that either

(a) this copyright and permission notice appear with all copies

of the Data Files or Software, or

(b) this copyright and permission notice appear in associated

Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED
 "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder

shall not be used in advertising or otherwise to promote the sale,

use or other dealings in these Data Files or Software without prior

written authorization of the copyright holder.

Third-Party Software Licenses

This section contains third-party software notices and/or additional

terms for licensed third-party software

 components included within ICU

libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,

distribute, and/or sell copies of the Software, and to permit persons

to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
 AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.

From: https://www.unicode.org/copyright.html:

  Unicode Copyright and Terms of Use

  For the general privacy policy governing access to this site, see the Unicode Privacy Policy.

    Unicode Copyright
        Copyright 1991-2020
 Unicode, Inc. All rights reserved.
    Definitions

    Unicode Data Files ("DATA FILES") include all data files under the directories:
    https://www.unicode.org/Public/
    https://www.unicode.org/reports/
    https://www.unicode.org/ivd/data/

    Unicode Data Files do not include PDF online code charts under the directory:
    https://www.unicode.org/Public/

    Unicode Software ("SOFTWARE") includes any source code published in the Unicode Standard

or any source code or compiled code under the directories:

https://www.unicode.org/Public/PROGRAMS/

https://www.unicode.org/Public/cldr/

http://site.icu-project.org/download/

Terms of Use

Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the Unicode Standard, subject to Terms
and Conditions herein.

Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject to the Terms and Conditions herein.

Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE can be found in the Unicode Data Files and Software License.

Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions (Unicode 5.0 and earlier), these are found on the back of the title page.

The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the
"mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical
errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED
TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the

damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire Agreement. This Agreement constitutes the entire agreement between the parties.


```

## JLine v3.22.0

### JLine License
<pre>

Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND
 FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.


4th Party Dependency
=============
org.fusesource.jansi version 2.4.0
org.apache.sshd 2.9.2
org.apache.felix.gogo.runtime 1.1.6
org.apache.felix.gogo.jline 1.1.8
=============
Apache License
                Version 2.0, January 2004
             http://www.apache.org/licenses/


 TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

 1. Definitions.

   "License" shall mean the terms and conditions
for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and
configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative
Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean

Licensor and any individual or Legal Entity
   on behalf of whom a Contribution has been received by Licensor and
   subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make, have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
    by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

   (a) You must give any other recipients of the Work or
       Derivative Works a copy of this License; and

   (b) You must cause any modified files to carry
prominent notices
       stating that You changed the files; and

   (c) You must retain, in the Source form of any Derivative Works
       that You distribute, all copyright, patent, trademark, and
       attribution notices from the Source form of the Work,
       excluding those notices that do not pertain to any part of
       the Derivative Works; and

   (d) If the Work includes a "NOTICE" text file as part of its
       distribution, then any Derivative Works that You distribute must
       include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works,
if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the
Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT,
MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such
damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
 the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

=============
juniversalchardet

The library is subject to the Mozilla Public License Version 1.1.

Alternatively,
 the library may be used under the terms of either the GNU General Public License Version 2 or later, or the GNU Lesser General Public License 2.1 or later.

================

slf4j

SLF4J source code and binaries are distributed under the MIT license.


Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO
 THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X License
or the X11 License, which is a simple, permissive non-copyleft free software license.
It is deemed compatible with virtually all types of licenses, commercial or otherwise.
In particular, the Free Software Foundation has declared it compatible with GNU GPL.
It is also known to be approved by the Apache Software Foundation as compatible with
Apache Software License.

</pre>
## Mesa 3-D Graphics Library v21.0.3

### Mesa License

```

Copyright (C) 1999-2007 Brian Paul   All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN
 ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Attention, Contributors

When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.
The following section lists the primary components of the Mesa distribution
and their respective licenses.
Mesa Component Licenses

Component   Location   License

Main Mesa code   src/mesa/   MIT
Device drivers   src/mesa/drivers/*   MIT, generally

Gallium code   src/gallium/   MIT

Ext headers   GL/glext.h   Khronos
          GL/glxext.h   Khronos
          GL/wglext.h   Khronos
          KHR/khrplatform.h   Khronos

****

----
include/GL/gl.h :

Mesa 3-D
 graphics library

Copyright (C) 1999-2006 Brian Paul   All Rights Reserved.
Copyright (C) 2009 VMware, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
 OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

****

----
include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

Copyright (c) 2013 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

----
include/KHR/khrplatform.h :

Copyright (c) 2008 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and/or associated documentation files (the "Materials"), to deal in the Materials without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Materials, and to permit persons to whom the Materials are furnished to do
 so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

```
## Mozilla Public Suffix List

### Public Suffix Notice
```
You are receiving a copy of the Mozilla Public Suffix List in the following

file: <java-home>/lib/security/public_suffix_list.dat. The terms of the
Oracle license do NOT apply to this file; it is licensed under the
Mozilla Public License 2.0, separately from the Oracle programs you receive.
If you do not wish to use the Public Suffix List, you may remove the
<java-home>/lib/security/public_suffix_list.dat file.

The Source Code of this file is available under the
Mozilla Public License, v. 2.0 and is located at
https://raw.githubusercontent.com/publicsuffix/list/3c213aab32b3c014f171b1673d4ce9b5cd72bf1c/public_suffix_list.dat.
If a copy of the MPL was not distributed with this file, you can obtain one
at https://mozilla.org/MPL/2.0/.

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations
 under the License.
```

### MPL v2.0
```
Mozilla Public License Version 2.0
==================================

1. Definitions

1.1. "Contributor"
   means each individual or legal entity that creates, contributes to
   the creation of, or owns Covered Software.

1.2. "Contributor Version"
   means the combination of the Contributions of others (if any) used
   by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
   means Covered Software of a particular Contributor.

1.4. "Covered Software"
   means Source Code Form to which the initial Contributor has attached
   the notice in Exhibit A, the Executable Form of such Source Code
   Form, and Modifications of such Source Code Form, in each case
   including portions thereof.

1.5. "Incompatible With Secondary Licenses"
   means

   (a) that the initial Contributor has attached the notice described

in Exhibit B to the Covered Software; or

(b) that the Covered
Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the
terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in
a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible,
whether at the time of the initial grant or subsequently, any and
all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to,
deletion from, or modification of the contents of Covered
Software; or

(b) any new file in Source Code Form that contains any Covered
Software.

1.11. "Patent Claims" of a Contributor
means any patent
claim(s), including without limitation, method,
process, and apparatus claims, in any patent Licensable by such
Contributor that would be infringed, but for the grant of the
License, by the making, using, selling, offering for sale, having
made, import, or transfer of either its Contributions or its
Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU
Lesser General Public License, Version 2.1, the GNU Affero General
Public License, Version 3.0, or any later versions of those
licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
   means an individual or a legal entity exercising rights under this
   License. For legal entities, "You" includes any entity that
   controls, is controlled by, or is under common control with You. For
   purposes of this definition, "control" means (a) the power, direct
   or indirect,
 to cause the direction or management of such entity,
   whether by contract or otherwise, or (b) ownership of more than
   fifty percent (50%) of the outstanding shares or beneficial
   ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:

(a) under intellectual property rights (other than patent or trademark)
   Licensable by such Contributor to use, reproduce, make available,
   modify, display, perform, distribute, and otherwise exploit its
   Contributions, either on an unmodified basis, with Modifications, or
   as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer
   for sale, have made, import, and otherwise transfer either its
   Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution
become effective for
 each Contribution on the date the Contributor first
distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under
this License. No additional rights or licenses will be implied from the
distribution or licensing of Covered Software under this License.
Notwithstanding Section 2.1(b) above, no patent license is granted by a
Contributor:

(a) for any code that a Contributor has removed from Covered Software;
   or

(b) for infringements caused by: (i) Your and any other third party's
   modifications of Covered Software, or (ii) the combination of its
   Contributions with other software (except as part of its Contributor
   Version); or

(c) under Patent Claims infringed by Covered Software in the absence of
   its Contributions.

This License does not grant any rights in the trademarks, service marks,
or logos of any Contributor (except as may be necessary to comply with
the notice requirements in Section
 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to
distribute the Covered Software under a subsequent version of this
License (see Section 10.2) or under the terms of a Secondary License (if
permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its
Contributions are its original creation(s) or it has sufficient rights
to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under
applicable copyright doctrines of fair use, fair dealing, or other
equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted
in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any
Modifications that You create or to which You contribute, must be under
the terms
 of this License. You must inform recipients that the Source
Code Form of the Covered Software is governed by the terms of this

License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3.
 Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known
 factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any

such warranty, support, indemnity, or liability obligation is offered by
You alone, and You hereby agree to indemnify every Contributor for any
liability incurred by such Contributor as a result of warranty, support,
indemnity or liability terms You offer. You may include additional
disclaimers of warranty and limitations of liability specific to any
jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this
License with respect to some or all of the Covered Software due to
statute, judicial order, or regulation then You must:
 (a) comply with
the terms of this License to the maximum extent possible; and (b)
describe the limitations and the code they affect. Such description must
be placed in a text file included with all distributions of the Covered
Software under this License. Except to the extent prohibited by statute
or regulation, such description must be sufficiently detailed for a
recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically
if You fail to comply with any of its terms. However, if You become
compliant, then the rights granted under this License from a particular
Contributor are reinstated (a) provisionally, unless and until such
Contributor explicitly and finally terminates Your grants, and (b) on an
ongoing basis, if such Contributor fails to notify You of the
non-compliance by some reasonable means prior to 60 days after You have
come back into compliance. Moreover, Your grants from
 a particular
Contributor are reinstated on an ongoing basis if such Contributor
notifies You of the non-compliance by some reasonable means, this is the
first time You have received notice of non-compliance with this License
from such Contributor, and You become compliant prior to 30 days after
Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent
infringement claim (excluding declaratory judgment actions,
counter-claims, and cross-claims) alleging that a Contributor Version
directly or indirectly infringes any patent, then the rights granted to
You by any and all Contributors for the Covered Software under Section
2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all
end user license agreements (excluding distributors and resellers) which

have been validly granted by You or Your distributors under this License
prior to termination shall survive termination.

```
**************************************************************************
*                                                                        *
*                                      *                                 *
* 6. Disclaimer of Warranty                        *                     *
* ------------------------                      *                        *
*                                            *                           *
* Covered Software is provided under this License on an "as is"     *    *
* basis, without warranty of any kind, either expressed, implied, or *   *
* statutory, including, without limitation, warranties that the      *   *
* Covered Software is free of defects, merchantable, fit for a       *   *
* particular purpose or non-infringing. The entire risk as to the    *   *
* quality and performance of the Covered Software is with You.       *   *
* Should any Covered Software prove defective in any respect, You     *  *
* (not any Contributor) assume the cost of any necessary servicing,  *   *
* repair, or correction. This disclaimer of warranty constitutes an  *   *
*                                                                        *
 essential part of this License. No use of any Covered Software is   *    *
* authorized under this License except under this disclaimer.        *    *
*                                      *                                 *
**************************************************************************
```

```
**************************************************************************
*                                      *                                 *
* 7. Limitation of Liability                      *                      *
* -------------------------                     *                        *
*                                      *                                 *
* Under no circumstances and under no legal theory, whether tort      *  *
* (including negligence), contract, or otherwise, shall any         *    *
* Contributor, or anyone who distributes Covered Software as         *   *
* permitted above, be liable to You for any direct, indirect,       *    *
* special, incidental, or consequential damages of any                   *
 character     *                                                          *
* including, without limitation, damages for lost profits, loss of   *   *
* goodwill, work stoppage, computer failure or malfunction, or any    *  *
* and all other commercial damages or losses, even if such party     *   *
* shall have been informed of the possibility of such damages. This  *   *
* limitation of liability shall not apply to liability for death or  *    *
* personal injury resulting from such party's negligence to the      *   *
* extent applicable law prohibits such limitation. Some            *      *
* jurisdictions do not allow the exclusion or limitation of         *     *
* incidental or consequential damages, so this exclusion and         *    *
* limitation may not apply to You.                    *                   *
*                                      *                                 *
**************************************************************************
```

8. Litigation

Any litigation relating to this License may be brought only in the
courts
 of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that
jurisdiction, without reference to its conflict-of-law provisions.
Nothing in this Section shall prevent a party's ability to bring
cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the extent
necessary to make it enforceable. Any law or regulation which provides
that the language of a contract shall be construed against the drafter
shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section
10.3, no one other than the license steward has the right to modify or
publish new versions of this License.
 Each version will be given a
distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version
of the License under which You originally received the Covered Software,
or under the terms of any subsequent version published by the license
steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to
create a new license for such software, you may create and use a
modified version of this License if you rename the license and remove
any references to the name of the license steward (except to note that
such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary

Licenses

If You choose to distribute Source Code Form that is Incompatible With
Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

  This Source Code Form is subject to the terms of the Mozilla Public
  License, v. 2.0. If a copy of the MPL was not distributed with this
  file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

  This Source Code Form is "Incompatible With Secondary Licenses", as
  defined by the Mozilla Public License, v. 2.0.

```
## GStreamer v1.18.4

### GStreamer Notice
```

You are receiving a copy of GStreamer, Version: 1.18.4 in either source or
object code in the JavaFX runtime or JavaFX SDK. The terms of the
Oracle license do NOT apply to the GStreamer, Version: 1.18.4; it is
licensed under the following license, separately from the Oracle programs
you receive. If you do not wish to install this library, you may delete
this library:

  - On Linux systems: delete $(JAVA_HOME)/lib/libgstreamer-lite.so
  - On Mac OS X systems: delete $(JAVA_HOME)/lib/libgstreamer-lite.dylib
  - On Windows systems: delete $(JAVA_HOME)\bin\gstreamer-lite.dll

A copy of the Oracle modified GStreamer library source code is located
in the following OpenJDK git repository:

  https://github.com/openjdk/jfx

You can use git to clone the repository or you can browse the
source using a web browser. The root directory of the GStreamer source
code is here:

```
 rt/modules/javafx.media/src/main/native/gstreamer/gstreamer-lite/
```

###
 LGPL 2.1
```

                    GNU LESSER GENERAL PUBLIC LICENSE
                         Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

                         Preamble

 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and
 other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these

rights.  These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

 For example, if you distribute copies
 of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you.  You must make sure that they, too, receive or can get the source
code.  If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it.  And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

 To protect each distributor, we want to make it very clear that
there is no warranty for the free library.  Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be
introduced by others.

  Finally, software patents pose a constant threat to the existence of
any free program.  We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder.  Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License.  This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License.  We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

 When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library.  The ordinary
General Public License
 therefore permits such linking only if the
entire combination fits its criteria of freedom.  The Lesser General
Public License permits more lax criteria for linking other code with
the library.

 We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General

Public License.  It also provides other free software developers Less
of an advantage over competing non-free programs.  These disadvantages
are the reason we use the ordinary General Public License for many
libraries.  However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard.  To achieve this, non-free programs must be
allowed to use the library.  A more frequent case is that a free
library does the same job as widely used non-free libraries.  In this
case, there is little to
 gain by limiting the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software.  For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow.  Pay close attention to the difference between a
"work based on the library" and a "work that uses the library".  The
former contains code derived from the library, whereas the latter must
be combined with the
 library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

 0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly
 into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive
 it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
   stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
   charge to all third

parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application.  Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole.  If
identifiable sections of that work are not derived from the
 Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works.  But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply
 the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library.  To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License.  (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.)  Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with
the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library".  Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather
than a "work that uses the
library".  The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library.  The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work.  (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License.  You must supply a copy of this License.  If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License.  Also, you must do one
of these things:

  a) Accompany the work with the complete corresponding
  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library.  (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
  Library.  A suitable mechanism is one that (1) uses at run time a
  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)
   will operate properly with a modified version of the library, if
  the user installs one, as long as the modified version is
  interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials
  specified in Subsection 6a, above, for a charge no more
  than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything
 that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system.  Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library,
uncombined with any other library
facilities.  This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License.  Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License.  However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not

signed it.  However, nothing else grants you permission to modify or
distribute the Library or its derivative works.  These actions are
prohibited
 by law if you do not accept this License.  Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

  10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions.  You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

  11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License,
 they do not
excuse you from the conditions of this License.  If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all.  For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software
 distribution system which is
implemented by public license practices.  Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to

be a consequence of the rest of this License.

 12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded.  In such case, this License incorporates the limitation as if
written in the body of this License.

 13. The Free Software Foundation
 may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number.  If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation.  If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

 14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission.  For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for
 this.  Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

                    NO WARRANTY

 15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.  THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU.  SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

 16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY

AND/OR REDISTRIBUTE THE LIBRARY AS
 PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change.  You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

 To apply these terms, attach the following notices to the library.  It is
safest to attach them to the start of each source file
 to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year>  <name of author>

    This library is free software; you can redistribute it and/or
    modify it under the terms of the GNU Lesser General Public
    License as published by the Free Software Foundation; either
    version 2.1 of the License, or (at your option) any later version.

    This library is distributed in the hope that it will be useful,
    but WITHOUT ANY WARRANTY; without even the implied warranty of
    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
    Lesser General Public License for more details.

    You should have received a copy of the GNU Lesser General Public
    License along with this library; if not, write to the Free Software
    Foundation, Inc., 51 Franklin Street, Fifth Floor,
 Boston, MA  02110-1301  USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if

necessary.  Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!

```
## xmlsoft.org: libxml2 v2.9.12

### libxml2 License
```

Except where otherwise noted in the source code (e.g. the files hash.c,
list.c and the trio files, which are covered by a similar licence but
with different Copyright notices) all the files are:

Copyright (C) 1998-2012 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

=== copyright notices for hash.c, list.c, and the trio files ===
hash.c:
* Copyright (C) 2000,2012 Bjorn Reese and Daniel Veillard.
list.c:
* Copyright (C) 2000 Gary Pennington and Daniel Veillard.
the trio files:
* Copyright (C) 1998 Bjorn Reese and Daniel Stenberg.

=== license text for hash.c, list.c, and the trio files ===
*

* Permission to use, copy, modify, and distribute this software for any

* purpose with or without fee is hereby granted, provided that the above

* copyright notice and this permission notice appear in all copies.

*

* THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED

* WARRANTIES, INCLUDING, WITHOUT

 LIMITATION, THE IMPLIED WARRANTIES OF

* MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND

* CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.

*

```

# 1.376 openjdk-jre 17.0.8u7

## 1.376.1 Available under license :

## c-libutl 20160225


### c-libutl License
```

This software is distributed under the terms of the BSD license.

== BSD LICENSE ==

(C) 2009 by Remo Dentato (rdentato@gmail.com)

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice,
    this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright notice,
    this list of conditions and the following disclaimer in the documentation
    and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT
 SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND

ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

http://opensource.org/licenses/bsd-license.php

```

## Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0

### Apache Commons BCEL Notice
<pre>

  Apache Commons BCEL
  Copyright 2004-2022 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (https://www.apache.org/).

</pre>

### Apache 2.0 License
<pre>

                    Apache License
                 Version 2.0, January 2004
               http://www.apache.org/licenses/

   TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

   1. Definitions.

     "License" shall mean the terms and conditions for use, reproduction,
     and distribution as defined by Sections 1 through 9 of this document.

     "Licensor" shall mean the copyright owner or entity authorized by
     the copyright owner that is granting the License.

     "Legal Entity" shall mean the union of the acting entity and all
     other entities that control, are controlled by, or are under common
     control with that entity.
    For the purposes of this definition,
     "control" means (i) the power, direct or indirect, to cause the
     direction or management of such entity, whether by contract or
     otherwise, or (ii) ownership of fifty percent (50%) or more of the
     outstanding shares, or (iii) beneficial ownership of such entity.

     "You" (or "Your") shall mean an individual or Legal Entity
     exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is
included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any
form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense,

and distribute the
  Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
  this License, each Contributor hereby grants to You a perpetual,
  worldwide, non-exclusive, no-charge, royalty-free, irrevocable
  (except as stated in this section) patent license to make, have made,
  use, offer to sell, sell, import, and otherwise transfer the Work,
  where such license applies only to those patent claims licensable
  by such Contributor that are necessarily infringed by their
  Contribution(s) alone or by combination of their Contribution(s)
  with the Work to which such Contribution(s) was submitted. If You
  institute patent litigation against any entity (including a
  cross-claim or counterclaim in a lawsuit) alleging that the Work
  or a Contribution incorporated within the Work constitutes direct
  or contributory patent infringement, then any patent licenses
  granted to You under this License for
 that Work shall terminate
  as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
  Work or Derivative Works thereof in any medium, with or without
  modifications, and in Source or Object form, provided that You
  meet the following conditions:

  (a) You must give any other recipients of the Work or
      Derivative Works a copy of this License; and

  (b) You must cause any modified files to carry prominent notices
      stating that You changed the files; and

  (c) You must retain, in the Source form of any Derivative Works
      that You distribute, all copyright, patent, trademark, and
      attribution notices from the Source form of the Work,
      excluding those notices that do not pertain to any part of
      the Derivative Works; and

  (d) If the Work includes a "NOTICE" text file as part of its
      distribution, then any Derivative Works that You distribute must
      include a readable copy of the attribution
 notices contained
      within such NOTICE file, excluding those notices that do not
      pertain to any part of the Derivative Works, in at least one
      of the following places: within a NOTICE text file distributed
      as part of the Derivative Works; within the Source form or
      documentation, if provided along with the Derivative Works; or,
      within a display generated by the Derivative Works, if and
      wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms
and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE
file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages
of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty
or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS
 IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
## Apache Xerces v2.12.2

### Apache Xerces Notice

<pre>
 =========================================================================
 == NOTICE file corresponding to section 4(d) of the Apache License,    ==
 == Version 2.0, in this case for the Apache Xerces Java distribution.  ==
 =========================================================================

 Apache Xerces Java
 Copyright 1999-2022 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).

 Portions of this software were originally based on the following:
  - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
  - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
  - voluntary contributions made by Paul Eng on behalf of the
 Apache Software Foundation that were originally developed at iClick, Inc.,
  software copyright (c) 1999.
</pre>

### Apache 2.0 License
<pre>


                      Apache License
                   Version 2.0, January 2004
                http://www.apache.org/licenses/

 TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

 1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity authorized by
  the copyright owner that is granting the License.

  "Legal Entity" shall mean the union of the acting entity and all
  other entities that control, are controlled by, or are under common
  control with that entity. For the purposes of this definition,
  "control" means (i) the power, direct or indirect, to cause the
  direction or management of such entity, whether by contract or
  otherwise, or (ii) ownership of fifty percent (50%) or more of the
  outstanding shares, or (iii) beneficial ownership of such entity.

  "You" (or "Your") shall mean
</pre>

an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work
of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work,
but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   (except as stated in this section) patent license to make,
  have made,
   use, offer to sell, sell, import, and otherwise transfer the Work,
   where such license applies only to those patent claims licensable
   by such Contributor that are necessarily infringed by their
   Contribution(s) alone or by combination of their Contribution(s)
   with the Work to which such Contribution(s) was submitted. If You
   institute patent litigation against any entity (including a
   cross-claim or counterclaim in a lawsuit) alleging that the Work
   or a Contribution incorporated within the Work constitutes direct
   or contributory patent infringement, then any patent licenses
   granted to You under this License for that Work shall terminate
   as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
   Work or Derivative Works thereof in any medium, with or without
   modifications, and in Source or Object form, provided that You
   meet the following conditions:

 (a) You must give any other recipients
 of the Work or
     Derivative Works a copy of this License; and

 (b) You must cause any modified files to carry prominent notices
     stating that You changed the files; and

 (c) You must retain, in the Source form of any Derivative Works
     that You distribute, all copyright, patent, trademark, and
     attribution notices from the Source form of the Work,
     excluding those notices that do not pertain to any part of
     the Derivative Works; and

 (d) If the Work includes a "NOTICE" text file as part of its
     distribution, then any Derivative Works that You distribute must
     include a readable copy of the attribution notices contained
     within such NOTICE file, excluding those notices that do not
     pertain to any part of the Derivative Works, in at least one
     of the following places: within a NOTICE text file distributed
     as part of the Derivative Works; within the Source form or
     documentation, if provided along with

the Derivative Works; or,

within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any
Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of
TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such
damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should
be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>

## Little Color Management System (LCMS) v2.15

### LCMS License
<pre>
README.1ST file information

LittleCMS core is released under MIT License


--------------------------------


Little CMS
Copyright (c) 1998-2023 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject
to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN
 NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.


--------------------------------
The below license applies to the following files:
liblcms/cmssm.c

Copyright 2001, softSurfer (www.softsurfer.com)

This code may be freely used and modified for any purpose
providing that this copyright notice is included with it.
SoftSurfer makes no warranty for this code, and cannot be held
liable for any real or imagined damage resulting from its use.
Users of this code must verify correctness for their application.

</pre>

### AUTHORS File Information

```

Main Author

Marti Maria

Contributors

Bob Friesenhahn
Kai-Uwe Behrmann
Stuart Nixon
Jordi Vilar
Richard Hughes
Auke Nauta
Chris Evans (Google)
Lorenzo Ridolfi
Robin Watts (Artifex)
Shawn Pedersen
Andrew Brygin
Samuli
 Suominen
Florian Hch
Aurelien Jarno
Claudiu Cebuc
Michael Vhrel (Artifex)
Michal Cihar
Daniel Kaneider
Mateusz Jurczyk (Google)
Paul Miller
Sbastien Lon
Christian Schmitz
XhmikosR
Stanislav Brabec (SuSe)
Leonhard Gruenschloss (Google)
Patrick Noffke
Christopher James Halse Rogers
John Hein
Thomas Weber (Debian)
Mark Allen
Noel Carboni
Sergei Trofimovic
Philipp Knechtges
Amyspark
Lovell Fuller
Eli Schwartz

Special Thanks

Artifex software

AlienSkin software

libVIPS

Jan Morovic

Jos Vernon (WebSupergoo)

Harald Schneider (Maxon)

Christian Albrecht

Dimitrios Anastassakis

Lemke Software

Tim Zaman

```

## xwd v1.0.7

### xwd utility

<pre>

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:
list.h, multiVis.h, wsutils.h, list.c, multiVis.c

Copyright 1994 Hewlett-Packard Co.
Copyright 1996, 1998  The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING
 FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

</pre>
## IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

### IAIK License
<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
   include the following acknowledgment:

   "This product includes software developed by IAIK of Graz University of
    Technology."

   Alternately, this acknowledgment may appear in the software itself, if and
   wherever such third-party
   acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of
   Technology" must not be used to endorse or promote products derived from this
   software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper",
   nor may "IAIK" appear in their name, without prior written permission of
   Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

</pre>
## PC/SC Lite v1.9.5

### PC/SC Lite License
<pre>

The main parts of the code are using the BSD-like licence bellow:

Copyright (c) 1999-2003 David Corcoran <corcoran@linuxnet.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

  1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
  2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
  3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

Changes to this license can be made only by the copyright author with explicit written consent.

THIS
 SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some source code files are using other licences. See the [COPYING](https://salsa.debian.org/rousseau/PCSC/-/blob/master/COPYING) file for details.

</pre>
Copyright  1993, 2018, Oracle and/or its affiliates.
All rights reserved.

This software and related documentation are provided under a
license agreement containing restrictions on use and
disclosure and are protected by intellectual property laws.
Except as expressly permitted in your license agreement or
allowed by law, you may not use, copy, reproduce, translate,
broadcast, modify, license, transmit, distribute, exhibit,

perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT END USERS:
 Oracle programs, including any
operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible
 to
take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC

International, Inc. AMD, Opteron, the AMD logo, and the AMD
Opteron logo are trademarks or registered trademarks of
Advanced Micro Devices. UNIX is a registered trademark of
The Open Group.

This software or hardware and documentation may provide
access to or information on content, products, and services
from third parties. Oracle Corporation and its affiliates
are not responsible for and expressly disclaim all
warranties of any kind
 with respect to third-party content,
products, and services. Oracle Corporation and its
affiliates will not be responsible for any loss, costs, or
damages incurred due to your access to or use of third-party
content, products, or services.
## The Unicode Standard, Unicode Character Database, Version 13.0.0

### Unicode Character Database
```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the
 "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies

of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
 OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## Harfbuzz v7.0.1

### Harfbuzz License

https://github.com/harfbuzz/harfbuzz/blob/7.0.1/COPYING

<pre>

HarfBuzz is licensed under the so-called "Old MIT" license.  Details follow.
For parts of HarfBuzz that are licensed under different licenses see individual
files names COPYING in subdirectories where applicable.

Copyright  2010-2022  Google, Inc.
Copyright  2018-2020  Ebrahim Byagowi
Copyright  2004-2013  Red Hat, Inc.
Copyright  2019  Facebook, Inc.
Copyright  2007  Chris Wilson
Copyright  2018-2019 Adobe Inc.
Copyright  2006-2023 Behdad Esfahbod
Copyright  1998-2004  David Turner and Werner Lemberg
Copyright  2009  Keith Stribley
Copyright  2018  Khaled Hosny
Copyright  2016  Elie Roux <elie.roux@telecom-bretagne.eu>
Copyright  2016  Igalia S.L.
Copyright  2015  Mozilla Foundation.
Copyright  1999  David Turner

Copyright 2005 Werner Lemberg

Copyright 2013-2015 Alexei Podtelezhnikov

Copyright 2022 Matthias Clasen

Copyright 2011 Codethink Limited

For full copyright notices
 consult the individual files in the package.

Permission is hereby granted, without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE.  THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

All source code, except for one section,
 is licensed as above. The one
exception is licensed with a slightly different MIT variant:
The contents of this directory are licensed under the following terms:

---------------------------------
The below license applies to the following files:
libharfbuzz/hb-ucd.cc

Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF

OR IN CONNECTION WITH THE USE OR PERFORMANCE
 OF THIS SOFTWARE.

</pre>

### AUTHORS File Information
```

Behdad Esfahbod
David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
Martin Hosken
Owen Taylor
Roderick Sheeter
Roozbeh Pournader
Simon Hausmann
Werner Lemberg

```
## Eastman Kodak Company: Portions of color management and imaging software

### Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
## Thai Dictionary

### Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
 OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

</pre>
## Apache Santuario v2.3.0

### Apache Santuario Notice
<pre>

 Apache Santuario - XML Security for Java
 Copyright 1999-2021 The Apache Software Foundation

 This product includes software developed at
 The Apache Software Foundation (http://www.apache.org/).

 It was originally based on software copyright (c) 2001, Institute for
 Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

 The development of this software was partly funded by the European
 Commission in the <WebSig> project in the ISIS Programme.

</pre>

### Apache 2.0 License
<pre>

                    Apache License
                Version 2.0, January 2004
              http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity

authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object
code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
 submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this
License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
    Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that

do not pertain to any part of
   the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
   distribution, then any Derivative Works that You distribute must
   include a readable copy of the attribution notices contained
   within such NOTICE file, excluding those notices that do not
   pertain to any part of the Derivative Works, in at least one
   of the following places: within a NOTICE text file distributed
   as part of the Derivative Works; within the Source form or
   documentation, if provided along with the Derivative Works; or,
   within a display generated by the Derivative Works, if and
   wherever such third-party notices normally appear. The contents
   of the NOTICE file are for informational purposes only and
   do not modify the License. You may add Your own attribution
   notices within Derivative Works that You distribute, alongside
   or as an addendum to the NOTICE text from
the Work, provided
   that such additional attribution notices cannot be construed
   as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not
grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing the
   origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
   agreed to in writing, Licensor provides the Work (and each
   Contributor provides its Contributions) on an "AS IS" BASIS,
   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   implied, including, without limitation, any warranties or conditions
   of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless
required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on
behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except
 in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
Your use of this Program is governed by the No-Fee Terms and Conditions set
forth below, unless you have received this Program (alone or as part of another
Oracle product) under an Oracle license agreement (including but not limited to
the Oracle Master Agreement), in which case your use of this Program is governed
solely by such license agreement with Oracle.

Oracle No-Fee Terms and Conditions (NFTC)

Definitions

"Oracle" refers to Oracle America, Inc. "You" and "Your" refers to (a) a company
or organization (each an "Entity") accessing the Programs, if use of the
Programs will be on behalf of such Entity; or (b) an individual accessing the
Programs, if use of the Programs will not be on behalf of an Entity.
"Program(s)" refers to Oracle software provided by Oracle pursuant to the
following terms and any updates, error corrections, and/or Program Documentation
provided by Oracle. "Program Documentation" refers to Program user manuals and
Program installation manuals, if any. If available,
 Program Documentation may be
delivered with the Programs and/or may be accessed from
www.oracle.com/documentation. "Separate Terms" refers to separate license terms
that are specified in the Program Documentation, readmes or notice files and
that apply to Separately Licensed Technology. "Separately Licensed Technology"
refers to Oracle or third party technology that is licensed under Separate Terms
and not under the terms of this license.

Separately Licensed Technology

Oracle may provide certain notices to You in Program Documentation, readmes or
notice files in connection with Oracle or third party technology provided as or
with the Programs. If specified in the Program Documentation, readmes or notice
files, such technology will be licensed to You under Separate Terms. Your rights
to use Separately Licensed Technology under Separate Terms are not restricted in
any way by the terms herein. For clarity, notwithstanding the existence of a
notice, third party technology that is not
 Separately Licensed Technology shall
be deemed part of the Programs licensed to You under the terms of this license.

Source Code for Open Source Software

For software that You receive from Oracle in binary form that is licensed under an open source license that gives You the right to receive the source code for that binary, You can obtain a copy of the applicable source code from https://oss.oracle.com/sources/ or http://www.oracle.com/goto/opensourcecode. If the source code for such software was not provided to You with the binary, You can also receive a copy of the source code on physical media by submitting a written request pursuant to the instructions in the "Written Offer for Source Code" section of the latter website.

--------------------------------------------------------------------------------

The following license terms apply to those Programs that are not provided to You under Separate Terms.

License Rights and Restrictions

Oracle grants to You, as a recipient of this
 Program, subject to the conditions
stated herein, a nonexclusive, nontransferable, limited license to:

(a) internally use the unmodified Programs for the purposes of developing, testing, prototyping and demonstrating your applications, and running the Program for Your own personal use or internal business operations; and

(b) redistribute the unmodified Program and Program Documentation, under the terms of this License, provided that You do not charge Your licensees any fees associated with such distribution or use of the Program, including, without limitation, fees for products that include or are bundled with a copy of the Program or for services that involve the use of the distributed Program.

You may make copies of the Programs to the extent reasonably necessary for exercising the license rights granted herein and for backup purposes. You are granted the right to use the Programs to provide third party training in the use of the Programs and associated Separately Licensed Technology
 only if there is
express authorization of such use by Oracle on the Program's download page or in the Program Documentation.

Your license is contingent on compliance with the following conditions:

- You do not remove markings or notices of either Oracle's or a licensor's
 proprietary rights from the Programs or Program Documentation;

- You comply with all U.S. and applicable export control and economic sanctions
 laws and regulations that govern Your use of the Programs (including technical
 data);

- You do not cause or permit reverse engineering, disassembly or decompilation
 of the Programs (except as allowed by law) by You nor allow an associated
 party to do so.

For clarity, any source code that may be included in the distribution with the
Programs is provided solely for reference purposes and may not be modified,
unless such source code is under Separate Terms permitting modification.

Ownership

Oracle or its licensors retain all ownership and intellectual property
 rights to
the Programs.

Information Collection

The Programs' installation and/or auto-update processes, if any, may transmit a
limited amount of data to Oracle or its service provider about those processes
to help Oracle understand and optimize them. Oracle does not associate the data
with personally identifiable information. Refer to Oracle's Privacy Policy at
www.oracle.com/privacy.

Disclaimer of Warranties; Limitation of Liability

THE PROGRAMS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. ORACLE FURTHER
DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION, ANY
IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
NONINFRINGEMENT.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW WILL ORACLE BE LIABLE TO YOU FOR
DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT
LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED
 BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.
## OASIS PKCS #11 Cryptographic Token Interface v3.0

### OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright  OASIS Open 2020. All Rights Reserved.

   All capitalized terms in the following text have the meanings
assigned to them in the OASIS Intellectual Property Rights Policy (the
"OASIS IPR Policy"). The full Policy may be found at the OASIS website:

to the implementation or use of the technology
 described in this OASIS
Standards Final Deliverable or the extent to which any license under
such rights might or might not be available; neither does it represent
that it has made any effort to identify any such rights. Information on
OASIS' procedures with respect to rights in any document or deliverable
produced by an OASIS Technical Committee can be found on the OASIS
website. Copies of claims of rights made available for publication and
any assurances of licenses to be made available, or the result of an
attempt made to obtain a general license or permission for the use of
such proprietary rights by implementers or users of this OASIS Standards
Final Deliverable, can be obtained from the OASIS TC Administrator.
OASIS makes no representation that any information or list of
intellectual property rights will at any time be complete, or that any
claims in such list are, in fact, Essential Claims.]

</pre>
## DOM Level 3 Core Specification v1.0

### W3C Software Notice
<pre>
Copyright  2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and License.
The software license requires "Notice of any changes or modifications to the W3C
files, including the date changes were made." Consequently, modified versions of
the DOM bindings must document that they do not conform to the W3C standard; in the
case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the
case of the Java language binding, the package names can no longer be in the
'org.w3c' package.
</pre>

### W3C License
<pre>

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided
 by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee)
agree that you have read, understood, and will comply with the following terms
and conditions.

Permission to copy, modify, and distribute this software and its
documentation, with or without modification, for any purpose and without fee
or royalty is hereby granted, provided that you include the following on ALL
copies of the software and documentation or portions thereof, including
modifications:

 1.The full text of this NOTICE in a location viewable to users of the
 redistributed or derivative work.

 2.Any pre-existing intellectual property disclaimers, notices, or terms and
 conditions. If none exist, the W3C Software Short Notice should be included
 (hypertext is preferred, text is permitted) within the body of any
 redistributed or derivative code.

 3.Notice of any changes or modifications to the files, including the date
 changes were made.
 (We recommend you provide URIs to the location from
 which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS
MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR
PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY
THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL
OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR
DOCUMENTATION.  The name and trademarks of copyright holders may NOT be used
in advertising or publicity pertaining to the software without specific,
written prior permission. Title to copyright in this software and any
associated documentation will at all times remain with copyright holders.

_____

This formulation of W3C's notice and license became active on December 31
2002. This
 version removes the copyright ownership notice such that this
license can be used with materials other than those owned by the W3C, reflects
that ERCIM is now a host of the W3C, includes references to this specific
dated version of the license, and removes the ambiguous grant of "use".
Otherwise, this version is the same as the previous version and is written so
as to preserve the Free Software Foundation's assessment of GPL compatibility
and OSI's certification under the Open Source Definition. Please see our
Copyright FAQ for common questions about using materials from our site,
including specific terms and conditions for packages like libwww, Amaya, and
Jigsaw. Other questions about this notice can be directed to
site-policy@w3.org.

</pre>
## Cryptix AES v3.2.0

### Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  1. Redistributions of source code must retain the copyright notice,
     this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in
     the documentation and/or other materials provided with the
     distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND
CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT,
 INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## libpng v1.6.38

### libpng License
<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2
---------------------------------------

Copyright (c) 1995-2022 The PNG Reference Library Authors.
Copyright (c) 2018-2022 Cosmin Truta
Copyright (c) 1998-2018 Glenn Randers-Pehrson
Copyright (c) 1996-1997 Andreas Dilger
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby
 granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.


PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
-----------------------------------------------------------------------

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the
 same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

  Simon-Pierre Cadieux
  Eric S. Raymond
  Mans Rullgard
  Cosmin Truta

Gilles Vollant

James Yu

Mandar Sahastrabuddhe

Google Inc.

Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of
the library or against infringement.  There is no warranty that our
efforts or the library will fulfill any of your particular purposes
or needs.  This library is provided with all faults, and the entire
risk of satisfactory quality, performance, accuracy, and effort is
with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000
 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

Tom Lane

Glenn Randers-Pehrson

Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

John Bowler

Kevin Bracey

Sam Bushell

Magnus Holmgren

Greg Roelofs

Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

    Andreas Dilger
    Dave Martindale
    Guy Eric Schalnat
    Paul Schmidt
    Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect, incidental, special, exemplary, or consequential damages, which may result from the use of the PNG Reference Library, even if advised of the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this source code, or portions hereof, for any purpose, without fee, subject to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
   be misrepresented as being the original source.

3. This Copyright notice may not be removed or
 altered from any
   source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit, without fee, and encourage the use of this source code as a component to supporting the PNG file format in commercial products. If you use this source code in a product, acknowledgment is not required but would be appreciated.

TRADEMARK
=========

The name "libpng" has not been registered by the Copyright owners as a trademark in any jurisdiction. However, because libpng has been distributed and maintained world-wide, continually since 1995, the Copyright owners claim "common-law trademark protection" in any jurisdiction where common-law trademark is recognized.

</pre>

### AUTHORS File Information
```

PNG REFERENCE LIBRARY AUTHORS
=============================

This is the list of PNG Reference Library ("libpng") Contributing
Authors, for copyright and licensing purposes.

* Andreas Dilger
* Cosmin Truta
* Dave Martindale
* Eric S. Raymond
* Gilles Vollant
 * Glenn Randers-Pehrson
* Greg Roelofs
* Guy Eric Schalnat
* James Yu
* John Bowler
* Kevin Bracey
* Magnus Holmgren
* Mandar Sahastrabuddhe
* Mans Rullgard
* Matt Sarett
* Mike Klein
* Pascal Massimino
* Paul Schmidt
* Qiang Zhou
* Sam Bushell
* Samuel Williams
* Simon-Pierre Cadieux
* Tim Wegner
* Tom Lane
* Tom Tanner
* Vadim Barkov
* Willem van Schaik
* Zhijie Liang
* Arm Holdings
  - Richard Townsend
* Google Inc.
  - Matt Sarett
  - Mike Klein
  - Dan Field
  - Sami Boukortt

The build projects, the build scripts, the test scripts, and other
files in the "ci", "projects", "scripts" and "tests" directories, have
other copyright owners, but are released under the libpng license.

Some files in the "contrib" directory, and some tools-generated files
that are distributed with libpng, have other copyright owners, and are
released under other open source licenses.
```
## jopt-simple v5.0.4

### MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
 OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
## jQuery v3.6.1

### jQuery License
```
jQuery v 3.6.1
Copyright OpenJS Foundation and other contributors, https://openjsf.org/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
 IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

****

The jQuery JavaScript Library v3.6.1 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons
 to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

****

```
## Apache Xalan v2.7.2

### Apache Xalan Notice
<pre>

==========================================================================
====
  ==  NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==
  ==  in this case for the Apache Xalan distribution.                    ==
==========================================================================
====

  This product includes software developed by
  The Apache Software Foundation (http://www.apache.org/).

  Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
  The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
  compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
  the source from the packages that are part of the XSLTC sources.

  Portions of this software was originally based on the following:

    - software copyright (c) 1999-2002, Lotus Development Corporation.,
  http://www.lotus.com.
    - software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
    - software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
    - voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
      Apache Software Foundation and was originally developed at Hewlett Packard Company.

</pre>

### Apache 2.0 License
<pre>

                  Apache License
               Version 2.0, January 2004
             http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control,
are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made
available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright
owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare
Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement,
then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
    stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
    that You distribute, all copyright, patent, trademark, and
    attribution notices from the Source form of the Work,
    excluding those notices that do not pertain to any part of
    the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
    distribution, then any Derivative
Works that You distribute must
    include a readable copy of the attribution notices contained
    within such NOTICE file, excluding those notices that do not
    pertain to any part of the Derivative Works, in at least one
    of the following places: within a NOTICE text file distributed
    as part of the Derivative Works; within the Source form or
    documentation, if provided along with the Derivative Works; or,
    within a display generated by the Derivative Works, if and
    wherever such third-party notices normally appear. The contents
    of the NOTICE file are for informational purposes only and
    do not modify the License. You may add Your own attribution
    notices within Derivative Works that You distribute, alongside
    or as an addendum to the NOTICE text from the Work, provided
    that such additional attribution notices cannot be construed
    as modifying the License.

  You may add Your own copyright statement
  to Your modifications and
  may provide additional or different license terms and conditions
  for use, reproduction, or distribution of Your modifications, or
  for any such Derivative Works as a whole, provided Your use,
  reproduction, and distribution of the Work otherwise complies with
  the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
   any Contribution intentionally submitted for inclusion in the Work
   by You to the Licensor shall be under the terms and conditions of
   this License, without any additional terms or conditions.
   Notwithstanding the above, nothing herein shall supersede or modify
   the terms of any separate license agreement you may have executed
   with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
   names, trademarks, service marks, or product names of the Licensor,
   except as required for reasonable and customary use in describing

the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including
any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted
against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!)  The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

   http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to
 in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.


JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability
 and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>
## GIFLIB v5.2.1

### GIFLIB License
```

The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

---
```

This is an open source license. It is also GPL-Compatible (see entry for
"Standard ML of New Jersey"). The portions of CUP output which are hard-coded
into the CUP source code are (naturally) covered by this same license, as is
the CUP runtime code linked with the generated parser.
```
## jQuery UI v1.13.2

### jQuery UI License
```
Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT
 WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code contained within the demos directory.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

```

## Unicode Common Local Data Repository (CLDR) v39

### CLDR License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2021 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal
 in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF

ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION,
 ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

--- Terms of Use ---
-

Unicode Copyright and Terms of Use
For the general privacy policy governing access to this site, see the Unicode Privacy Policy.

Unicode Copyright
Copyright 1991-2021 Unicode, Inc. All rights reserved.
Definitions
Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:
https://www.unicode.org/Public/

Unicode
 Software ("SOFTWARE") includes any source code published in the Unicode Standard
or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/
Terms of Use
Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person
is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the
Unicode Standard, subject to Terms and Conditions herein.
Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject
to the Terms and Conditions herein.
Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE
can be found in the Unicode Data Files and Software License.

Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions
 (Unicode 5.0 and earlier), these are found on the back of the title page.

The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government
 is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR
 SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium
 and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this

website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and

 damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire

 Agreement. This Agreement constitutes the entire agreement between the parties.


```

## ASM Bytecode Manipulation Framework v8.0.1

### ASM License
<pre>

Copyright (c) 2000-2011 France Tlcom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY
 AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS

INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## Dynalink v.5

### Dynalink License
<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN
 NO EVENT SHALL COPYRIGHT HOLDER
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
## Independent JPEG Group: JPEG release 6b

### JPEG License

```

****

Copyright (C) 1991-1998, Thomas G. Lane.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

The authors make NO WARRANTY or representation, either express or implied,
with respect to this software, its quality, accuracy, merchantability, or
fitness for a particular purpose. This software is provided "AS IS",
and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute
this software (or portions thereof) for any purpose,
 without fee,
subject to these conditions:

(1) If any part of the source code for this software is distributed,
then this README file must be included, with this copyright and no-warranty
notice unaltered; and any additions, deletions, or changes to the original
files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation
must state that "this software is based in part on the work of the
Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products
 derived
from it. This software may be referred to only as "the Independent JPEG
Group's software".

We specifically permit and encourage the use of this software as the basis
of commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

It appears that the arithmetic coding option of the JPEG spec is covered

by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding
cannot legally be used without obtaining one or more licenses. For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the
 GIF writer has been simplified to
produce "uncompressed GIFs". This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated. GIF(sm) is a
Service Mark property of CompuServe Incorporated."

****
```
## International Components for Unicode (ICU4J) v67.1

### ICU4J License
```

COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright 1991-2020 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED
 "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE

WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software
 components included within ICU
libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
 AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF

CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.

From: https://www.unicode.org/copyright.html:

  Unicode Copyright and Terms of Use

  For the general privacy policy governing access to this site, see the Unicode Privacy Policy.

    Unicode Copyright
       Copyright 1991-2020
  Unicode, Inc. All rights reserved.
     Definitions

     Unicode Data Files ("DATA FILES") include all data files under the directories:
     https://www.unicode.org/Public/
     https://www.unicode.org/reports/
     https://www.unicode.org/ivd/data/

     Unicode Data Files do not include PDF online code charts under the directory:
     https://www.unicode.org/Public/

     Unicode Software ("SOFTWARE") includes any source code published in the Unicode Standard
     or any source code or compiled code under the directories:
     https://www.unicode.org/Public/PROGRAMS/
     https://www.unicode.org/Public/cldr/
     http://site.icu-project.org/download/

     Terms of Use
        Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any
  person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming
  to the Unicode Standard, subject to Terms
   and Conditions herein.
        Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files,
  subject to the Terms and Conditions herein.
        Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and

SOFTWARE can be found in the Unicode Data Files and Software License.

Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions (Unicode 5.0 and earlier), these are found on the back of the title page.

The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of

America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire Agreement. This Agreement constitutes the entire agreement between the parties.

```
## JLine v3.22.0

### JLine License
<pre>

Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND

FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.


4th Party Dependency
=============
org.fusesource.jansi version 2.4.0
org.apache.sshd 2.9.2
org.apache.felix.gogo.runtime 1.1.6
org.apache.felix.gogo.jline 1.1.8
=============
Apache License
                  Version 2.0, January 2004
                http://www.apache.org/licenses/


TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

   "License" shall mean the terms and conditions
for use, reproduction,
   and distribution as defined by Sections 1 through 9 of this document.

   "Licensor" shall mean the copyright owner or entity authorized by
   the copyright owner that is granting the License.

   "Legal Entity" shall mean the union of the acting entity and all
   other entities that control, are controlled by, or are under common
   control with that entity. For the purposes of this definition,
   "control" means (i) the power, direct or indirect, to cause the
   direction or management of such entity, whether by contract or
   otherwise, or (ii) ownership of fifty percent (50%) or more of the
   outstanding shares, or (iii) beneficial ownership of such entity.

   "You" (or "Your") shall mean an individual or Legal Entity
   exercising permissions granted by this License.

   "Source" form shall mean the preferred form for making modifications,
   including but not limited to software source code, documentation
   source, and

configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative
Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean
Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
   this License, each Contributor hereby grants to You a perpetual,
   worldwide, non-exclusive, no-charge, royalty-free, irrevocable
   copyright license to reproduce, prepare Derivative Works of,
   publicly display, publicly perform, sublicense, and distribute the
   Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
 by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry
prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works,
if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided